AUTHOR INDEX, VOLUME 53

A

Aaronson, S. A., 269, 270
Ab, G., 98, 102
Abdel-Monem, M. M., 763
Abdulaev, N. G., 599, 614
Abe, E., 729
Abeles, F. B., 651
Abeles, R. H., 358, 380-84, 494, 496-98, 504, 505, 511, 512, 528, 780
Abeloff, M. D., 761
Abelson, J., 345, 773
Abraham, A. K., 775
Abraham, P. A., 741, 742
Abramowitz, R., 145
Abrash, L., 383
Achazi, R. K., 57
Ackers, G., 294, 299
Ackerson, J. W., 411
Ackles, D., 504
Acott, S. R., 249
Acs, G., 24
Adachi, K., 765
Adam, M., 737
Adam, S., 502
Adams, C. A., 586
Adams, C. W., 151, 155
Adams, E., 736
Adams, G. A., 642
Adams, M. A., 219
Adams, S. P., 328, 335
Addonizo, M. L., 864
Adelman, B., 739
Adelman, J., 336, 670-72, 678, 680, 690, 705
Adelstein, R. S., 36
Adhya, S., 294, 306, 418, 426, 428, 431, 432
Adhya, S. L., 438
Adiga, P. R., 758, 758
Adler, K., 313
Aebi, U., 43
Aeby, P., 181
Affolter, H.-U., 772
Agard, D. A., 600
Agarwal, K. L., 333, 336, 340-42, 669, 671, 672, 678
Agarwal, R. P., 530
Aharonov, A., 275
Ahmed, K., 776, 777
Aiba, H., 306, 417
Aikens, D., 771, 782
Aikens, D. A., 782
Akashi, I., 30
Akerblom, L., 457
Akers, H., 31
Akiba, K., 724
Akil, H., 697, 699, 702
Akio, S., 657
Akiyama, F., 852
Akiyama, Y., 632, 647
Al-Ubaidi, M. R., 456
Albanesi, J. P., 63
ALBERSHEIM, P., 625-63; 626, 627, 629-34, 638-42, 644, 650-54, 657
Albertini, A. M., 453, 471, 472
Albertson, D. G., 174
Albrechtsen, B., 431
Albright, F. R., 377
Albright, J., 727
Alderson, T., 472
Aldrich, C., 90
Aldridge, J., 741
Alekseeva, A. E., 370, 371
Alexandrescu, A., 805
Algranati, I. D., 774, 775
Alhonen-Hongisto, L., 377, 761-63, 767, 781
Alikulov, Z., 233, 235, 236
Alitàlo, K., 460, 462, 862, 865
Allen, A. K., 647
Allen, R. R., 375, 697, 759
Allen, S. H., 148
Allet, B., 90
Allison, S. A., 771
Almazan, A., 741
Aloni, Y., 576, 580
Alston, T., 495, 530
Alston, T. A., 506, 510
Alt, F., 456, 460, 462, 464, 471
Altman, A., 758
Altman, S., 584
Alton, T. H., 108, 109
Alvarado-Urbina, G., 325, 326, 328
Alvarez, V. L., 738
Alving, B. M., 220
Alwine, J. C., 687
Amado, R., 649
Amaldi, F., 110
Amalric, F., 587
Åman, P., 626, 642
Amara, S. G., 669, 671, 676, 677, 683, 684, 693
Ames, B. N., 770
Ames, G. F., 378
Ames, G. F.-L., 453
Amin, A. A., 451
Amis, E. J., 214
Ammermann, D., 189, 808, 831
Amos, L. A., 37-39, 43
Amrani, D., 204
Amrani, D. L., 219
Amy, N. K., 244, 246, 249
An, G., 80, 84, 91, 102
Anastasi, A., 666, 671
Anderegg, R., 299
Anderegg, R. J., 599
Andersen, J. W., 120, 129, 135
Andersen, P. R., 461
Anderson, A. J., 629, 651
Anderson, C. F., 396, 397
Anderson, C. W., 675, 775
Anderson, D., 602
Anderson, G. L., 763
Anderson, J. C., 854
Anderson, L., 562, 563, 606-8
Anderson, P., 452, 453
Anderson, R. G. W., 284
Anderson, R. L., 642, 648
Anderson, R. P., 452, 453
Anderson, S., 120, 122, 123, 136, 152, 574-78, 582, 584, 586,587, 590
Anderson, W. F., 294-98, 303, 304, 310-16, 319, 404, 405, 431
Anderson-Prouty, A. J., 629
Andersson, P., 450
Ando, T., 367, 383
Andrade, E., 246
Andreesen, J. R., 249
Andres, R. Y., 285
Andrulis, I. L., 457, 470
Angeletti, P. U., 283
Angeletti, R. H., 267, 271, 666, 671
Angelini, P., 741
Angerer, L., 576
Ansay, M., 740
Antoniades, H. N., 261, 267, 269, 270, 281, 283, 286
Antonini, E., 649, 650
Antrup, H., 778
Anwar, R. A., 736, 738
Anzano, M. A., 266-68, 282, 286
Aoyagi, M., 80, 87
Appelgate, D., 68
Appels, R., 455
Applebaum, D. M., 755, 755
Aprison, B. S., 219
Arad, T., 52, 55, 599, 601
Archer, R., 87, 95
Ard, J. S., 561
Ardaillou, N., 200
Ardeshir, F., 458, 460, 466-68, 470-73, 477, 482, 483, 485
Arentzen, R., 336

Arfin, S. M., 457
Arfsten, A. E., 80, 81, 87, 95, 436
Argos, P., 538, 559, 560, 607-10, 616, 617
Arisawa, M., 502
Armstrong, P. W., 587
Armstrong, V. W., 413, 420
Arndt, K. T., 313
Arndt-Jovin, D. J., 177, 186, 805-8, 811, 817, 818, 828, 831, 837, 840
Arnheim, N., 829
Arnott, S., 295, 296, 803, 804, 828
Arruti, C., 266
Arst, H. N. Jr., 246
Artymiuk, P. J., 539
Asai, M., 669, 671, 678
Asamizu, T., 631
Ashley, T., 176, 177
Ashman, C. R., 457
Ashton, F. T., 53, 54
Aspinall, G. O., 634, 642, 651
Assoian, R. K., 266
Astaurova, O., 413
Astell, C. R., 179, 347, 839
Aten, B., 668
Atherly, A. G., 102
Atkins, J. F., 775
Atkinson, T. C., 330, 512
Atlung, T., 80, 95
Atmar, V. J., 756, 766, 772, 777
Attardi, B., 576-78, 586
Attardi, G., 574-82, 585, 587-89
Atwood, H. L., 56
Atwood, K. C., 454
Audemard, E., 40-44, 67
Audigier, Y., 702
Augustine, T. A., 756
Aurias, A., 177
Austen, K. F., 852, 855
Avadhani, N. G., 581
Avants, J. K., 651
Averill, B. A., 232, 248, 249
Avery, N. G., 734
Avital, S., 145
Aviv, A. H., 675
Axel, R., 459, 461, 464-66, 477, 479
Axelsson, I., 853
Ayers, A., 629
Ayers, A. R., 653
Azad, A. A., 150
Azizkhan, J. C., 449, 464, 469, 477
Azorin, F., 318, 808, 822-25, 827, 831, 833, 834, 838, 841

B

Baan, R. A., 127, 128, 143
Baccetti, B., 53
Bacchi, C. J., 761
Bach, T. C., 671, 672, 678
Bachmann, B. J., 79, 251
Bachrach, U., 750, 758, 760, 763, 764, 769, 770, 776, 779, 782
Backendorf, C., 127, 128, 138
Backman, K. C., 294, 299, 300
Bäckström, G., 852, 853
Baddiley, T., 20
Baehr, W., 804, 810, 819
Baenziger, J. U., 269
Baer, M. F., 584
Baer, R. J., 580, 585, 586
Baglan, N. C., 266, 267
Bagshaw, C. R., 45
Bahl, C. P., 337
Baig, K. M., 738
Bailey, A. J., 719-24, 726, 727, 732-34, 740, 741, 743
Bailey, B. D., 448
Bailey, J. A., 653
Bailey, K., 56, 206
Bailey, R. W., 630
Baizman, E. R., 699
Baker, B. S., 455
Baker, E. N., 539, 540
Baker, H., 47, 49, 62
Baker, J. B., 265
Baker, S. R., 850
Bakhari, A. I., 480-82
Bakken, A., 450
Bala, R. M., 275
Balaban, G., 461
Balaji, V. N., 815
Balasubramanian, T. M., 528
Bald, R., 143-45
Baldori, J., 521
Baldwin, R. L., 559, 771
Bale, M. D., 209
Balian, G., 723, 726
Balint, M., 40, 41, 48
Ball, A., 500
Balland, A., 327, 337
Ballivet, M., 438
Baltimore, D., 278, 460, 462, 464, 471
Bambara, P., 332
Banaszak, L. J., 568, 605
Bandyopadhyay, P., 401
Banerjee, A. K., 803
Banerji, J., 836
Banes, A. J., 729
Banga, T. E., 16
Bangerter, F., 496, 507
Bankier, A. T., 574-76, 578, 584, 587
Bansal, M., 307, 815
Bantle, J. A., 677
Baran, N., 469
Barchas, J. D., 672, 697, 702, 703
Barclay, B. J., 469
Barde, Y.-A., 261, 266
Barden, J. A., 64, 67
Bardin, C. W., 755, 757, 761, 763, 764
Barker, H. A., 380, 758
Barkley, M. D., 398, 418
Barlow, G. H., 214
Barnafi, L., 666, 670
Barnes, M. J., 721
Barnes, W. M., 345, 453
Barnett, F. H., 676
Barnett, G. R., 756
Barnett, L., 40, 46, 48
Barnett, L. M., 41
Barnett, V. A., 65
Barnoud, F., 631, 634, 642, 651
Baron, L. S., 438
Baroudy, B. M., 179
Barr, P., 525, 526
Barrach, H.-J., 855
Barrell, B. G., 121, 124, 134, 574-76, 578, 584, 587
Barrett, A. J., 640
Barritault, D., 266
Barry, G., 83, 436
Barsh, G. S., 740
Barsoum, J., 468
Barta, A., 155
Barth, W. E., 499
Bartholeyns, J., 757
Bartlett, D., 520
Bartlett, P. A., 457
Bartoli, J., 517
Barton, J. K., 805, 809
Barton, L. L., 240
Bartos, D., 750
Bartos, F., 750
Basham, H. G., 629, 657
Basile, L. A., 805
Baskin, F., 457
Bassel, A. R., 127, 128
Bateman, A. J., 178, 180, 184
Bateman, D. F., 629, 657
Bates, O. J., 265
Bates, P. F., 457
Batt, R., 328
Battenberg, E., 702
Battersby, A. R., 364, 372, 375
Battey, J., 574, 576-78, 580, 582, 587
Bauer, G. E., 673
Bauer, K., 30
Bauer, W. D., 626, 632, 637, 639, 644, 651, 652, 657
BAUGHMAN, G., 75-117; 82, 84, 87, 88, 93
Baumann, M. J., 437, 438
Baxter, J. D., 691
Bayev, A. A., 121-23, 136, 152

Bayley, H., 600
Bayley, P. M., 819, 826
Baylin, S. B., 761, 769
Baylink, D. J., 266
Bayliss, W. M., 12
Baynes, J. W., 743
Beabealashvilli, R. S., 420
Beach, L. R., 456
BEAR, D. G., 389-446; 127, 147, 149, 294, 404, 405, 422-24, 426, 431-33
Bear, J. L., 392
Bear, R., 57
Beard, C., 418
Beaucage, S. L., 328, 677
Beaudet, A. L., 457
Beaumont, A., 703
Beaven, M. A., 373
Beccari, E., 110
Becherer, K., 805
Beck, E. A., 200, 208, 211, 642
Beck, S., 806, 808
Becker, C. G., 739
Becker, U., 732
Becking, J. H., 236, 250
Beckmann, S. L., 677
Beckwith, J., 390, 431, 432, 696
Bedarkar, R. E., 266
Bedbrook, J. R., 120, 180
Bedwell, D. M., 79, 82
Beek, B., 480
Beese, L., 38, 45
Befani, O., 780
Begbie, R., 642
Behe, M., 771, 803-5, 809, 811, 817, 819-21, 828, 840
Behe, M. J., 817
Behling, A. R., 371
Behr, M., 426, 431
Beil, R. E., 750
Beilan, H., 514, 516
Bektesh, S. L., 430
Belehradek, J., 483
Belitser, A. V., 199
Belitsky, B., 100
Bell, A. L., 59, 60
Bell, G. I., 267, 271, 272, 345, 669, 671-72, 678, 683
Bell, J., 512
Bell, L. E., 776, 777
Bell, P. H., 699
Bell, R. M., 377
Bell, W. R., 219, 222
Bellet, A. J. D., 178, 182
Bello, J., 560, 561
Bendzko, P., 557, 558
Benemann, J. R., 249-52
Benevides, J. M., 810, 805, 811
Bengtsson, G., 860
Benham, C. J., 815
Benicourt, C., 377, 775
Benight, A. S., 401
Benjannet, S., 701
Benn, P. A., 177
Bennett, C. A., 457
Bennett, G. N., 404, 417, 437
Bennett, H. P. J., 669, 696-701
Bennett, M. D., 176
Bennett, P. M., 56, 57, 59, 60, 105
Bennett, R. A., 768
Bennich, H., 613, 615
Benoist, C., 834
Bensadoun, A., 860
Benton, W. D., 337, 338, 679
Benya, P. D., 732, 733
Berendsen, H. J. C., 314
Berenson, R. J., 466
Beres, V., 454
Berg, C. A., 186, 189
Berg, D. E., 480
Berg, J. M., 234, 606
Berg, O. G., 396, 398-400, 404, 405, 431
Berg, P., 20, 343, 452, 459, 677
Bergen, L. G., 174
Bergenstal, R. M., 701
Berger, E. A., 673, 674
Berger, N., 653
Bergmann, M., 690
Bergold, P. J., 182
Berk, A. J., 576, 577, 588
Berlin, C. M., 765
Berlin, V., 428
Berliner, G. C., 54
Berman, C., 267, 271-74, 342, 669, 671, 679, 682
Berman, M. L., 78, 98
Bernal, T. D., 17
Bernards, A., 177, 186, 187, 189
Bernfield, M., 855-57
Bernfield, M. R., 864
Bernier, G., 658
Berns, M. W., 173
Bernstein, P. H., 722, 737
Bernstein, S. I., 48
Berry, M., 457
Berson, S. A., 673
Bertino, J. R., 456, 459, 466
Bertrand, R., 40-44, 67
Berube, L., 722
Besmer, P., 336
Bestor, T. H., 821
Bethell, D. R., 769
Bettelheim, F. R., 206
Beverley, S. M., 456, 458, 459, 467, 468, 475
Bey, P., 760, 762
Beyreuther, K., 313
Bhargava, M. M., 454
Bhat, K. S., 581
Bhat, T. N., 542
Bhatt, R. S., 340, 525, 669, 671, 678, 703
Bhaumick, B., 275
Bianco, A. R., 275
Bibb, M. J., 151, 155, 574-76, 578, 584, 586, 587, 590
Biedler, J. L., 448, 449, 457, 458, 460, 462, 469, 470, 472
Biegel, A. A., 741
Biemann, K., 599, 724
Bienkowski, R. S., 739
Bingham, P. M., 485
Bink, G., 780
Biondi, P. A., 372
Bird, A. P., 449, 450, 819, 841
Bird, H. L., 666, 671
Bird, J. W., 574, 580, 585, 586
Bird, T. A., 719
Birdsall, D. L., 803, 804, 828
Birnbaum, R. S., 676, 693
Birnberg, N., 687, 691, 693
Birnstiel, M., 450
Birnstiel, M. L., 689
Biro, E. N. A., 40
Bishop, C. T., 642
Bishop, J. M., 278, 448, 460-62, 480, 671
Bishop, P. D., 656
Bishop, P. E., 236, 237, 251, 656
Bisig, R., 438
Bispink, L., 155
Bissell, K., 275
Bissell, M. J., 863
Bitonti, A. J., 762, 763
Björk, G. R., 78-80, 471, 472
Björk, I., 853
Bjorn, M. J., 620
Blacher, R., 666, 670, 703
Black, C. M., 741
Black, J. A., 564
BLACKBURN, E. H., 163-94; 177, 182-87, 189, 450, 451
Blackwell, J., 630
Blake, C. C. F., 316, 539
Blanc, H., 151, 155, 586
Blanck, T. J. J., 739
Bland, C. E., 855
Blandfort, N., 673, 674
Blankenship, J., 778
Blaschek, W., 630, 631, 644
Blattner, F. R., 352, 438
Blechl, A. E., 837
Blinderman, L. A., 280
Blithe, D. L., 278, 850
Blix, P. M., 701
Blobel, G., 669, 675, 696
Bloch, K., 494, 533
Block, R., 98
Blocker, H., 327

Blombäck, B., 196, 198, 199, 201, 206, 208, 209, 213, 222
Blombäck, M., 196, 199, 208
Blomberg, C., 556, 607, 608
Bloom, F., 701, 702
Bloom, K. S., 171-73
Bloom, R. E., 672
Bloomfield, V. A., 50
Blout, J. E., 720, 734
Bloxham, D., 14
Blumenfeld, O. O., 383, 737, 739
Blumenthal, R. M., 84, 604
Blundell, T. L., 266
Boarder, M. R., 697, 702
Bochkareva, E. S., 155
Böck, A., 80, 81, 85, 105
Bock, H.-G. O., 457
Bode, W., 204
Boecker, E. A., 755
Boedtker, H., 730
Boehm, T. L. J., 821
Boeker, E. A., 358, 363, 755
Boel, E., 669, 671, 672, 678
Boettiger, D., 864
Boezi, J. A., 413, 457
Bogdanov, A. A., 120, 127, 128, 139, 144, 145, 147, 149
Bogenhagen, D. F., 111, 579, 580
Bohlen, P., 666, 669, 671, 696, 700, 701, 703
Böhm, S., 120, 129, 135, 146
Bohn, M., 834, 838
Boime, I., 528, 697, 701
Bojan, F., 468
Bolin, J. T., 540
Bolivar, F., 676
Bolkenius, F. N., 776-80
Bolle, A., 89
Bollen, G. H. P. M., 110
Bollon, A. P., 121, 122, 152
Bolognesi, M. C., 604
Bolotin-Fukuhara, M., 151
Boman, H., 24
Boman, H. G., 613, 615
Bond, M., 63
Bone, G., 761
Bonner, J., 338, 342, 347, 678
Bonner, W. M., 675
Borch, R., 384
Borchardt, R. T., 763
Bordas, J., 64-66
Borejdo, J., 66
Borer, P. N., 126
Borisy, G. G., 174
Borjedo, J., 41
Borkenhagen, L. F., 377
Bornstein, P., 732, 741, 855
Borod'ko, Y. G., 235
Boros, I., 97, 99
Borst, P., 120-23, 136, 152, 177, 186, 187, 189
Bortels, H., 231, 250
Bosch, C., 603
Bosch, L., 91, 127, 128, 143
Boschelli, F., 313
Bose, C. C., 326, 327
Bose, R. J., 770
Bosshart, R. P., 651
Bossi, L., 432
Bostock, C. J., 174, 471, 472
Boswell, R. E., 189
Botchan, M., 450, 466, 479
Botstein, D., 167
Bottenstein, J. E., 265
Botts, J., 41, 64
Boublik, M., 148
Boucek, R. J., 723, 725, 742
Bouma, H. III, 196, 198, 219
Bourgeois, S., 418
Bouvier, S., 403, 406, 411
Bowden, G. T., 280, 281
Bowen-Pope, D. F., 266, 275, 278
Bowers, B., 63
Bowles, M. G., 90
Bowman, C. M., 151
Bowman, W. H., 759
Boxer, D. H., 252
Boxter, E., 859
Boyd, J. B., 455
Boyd, L. F., 275
Boyer, H., 676
Boyer, M. H., 199
Boyle, S. M., 752, 755, 762, 765, 765, 773
Boynton, A. L., 769
Bozzoni, I., 110
Brack, C., 337
Bradbury, A. F., 696, 697
Bradford, M. M., 761
Bradley, L. B., 40
BRADSHAW, R. A., 259-92; 261-63, 265-69, 271, 273, 275, 277, 282, 283, 285, 666, 671
Brady, C., 294, 422-24, 426, 431, 437
Brahic, M., 673, 688
Brahmachari, S. K., 803
Brahms, J., 803
Brahms, J. G., 805, 809, 811, 826
Brahms, S., 804, 805, 808, 809, 811, 822, 824, 826, 830, 841
Brake, A. J., 684
Branca, A. A., 769
Branchini, B. R., 497
Brand, J., 702
Brand, K. D., 741
Brändén, C. I., 567, 568
Brangman, D., 461
Branlant, C., 85, 123, 125, 129, 136, 147, 148, 155, 586
Branson, H. R., 539, 560
Braun, R., 772
Braverman, R., 776, 780
Bray, R. C., 232
Braymer, H. D., 236, 251
Brazeau, P., 666, 671
Breathnach, R., 687, 689
Breitmeyer, J. B., 155
Bremer, H., 102, 105, 108
Brennan, R., 805, 822, 825
Brennan, S. M., 408
Brennan, S. O., 701
Brennand, J., 456, 459
Brenner, D. G., 495, 499
Brenner, M. J., 676
Brenner, S., 88, 173
Bresloff, J. L., 398
Breslow, R., 769
Brett, C. T., 630, 631
Brett, M. J., 851
Breunig, K., 394, 398, 417
Brewer, H. B. J., 666, 671
Brewster, J. M., 109
Brickley-Parsons, D., 723
Brierley, C. L., 241
Bright, H., 495, 530
Bright, H. J., 506, 510
BRILL, W. J., 231-57; 232-37, 239, 242-44, 246, 250-52
Brimacombe, R., 120, 125-30, 134, 135, 139-42, 144-50, 156, 586
Brinkley, B. R., 173
Brison, O., 460, 466, 471-73, 482, 485
Broach, J. R., 166, 167
Brock, D., 494, 533
Brockes, J. P., 266
Broka, C., 801
Broker, T. R., 178
Bromer, W. W., 666, 671
Brooks, B. R., 815
Brosius, J., 97, 98, 120-23, 125, 129-31, 133-35, 157
Brosnan, M. E., 376
Brot, N., 81, 84, 87
Brouillette, C. G., 616
Brow, D. A., 154
Brown, D., 111
Brown, D. D., 111, 450, 451
Brown, G. M., 359, 379, 384
Brown, K. D., 280, 281
Brown, L. R., 102, 603
Brown, M. L., 861
Brown, M. S., 284, 456, 458, 459, 860
Brown, P. C., 456, 467, 468
Brown, S. W., 188, 431
Brown, W., 48, 52, 60, 64
Brown, W. V., 860

Browne, C. A., 669, 697, 700, 701
Brownie, A. C., 701
Brownlee, G. G., 121, 124, 134, 588
Brownstein, M. J., 672-74
Broyde, S., 817, 818, 839
Bruce, R. J., 655
Bruckner, R., 82
Bruenger, E., 738
Brugge, T., 28
Bruist, M., 456, 458, 468
Brunden, M. J., 327
Bruns, G., 460, 462, 464, 471
Brunstedt, J., 340-42, 678
Bruschi, M., 241
Bryant-Greenwood, G., 268
Buc, H., 306, 308, 417, 418
Buchala, A. J., 634, 635
Bucher, P., 805, 809, 811, 826
Buchi, H., 333, 336
Buck, C. A., 850
Buck, G. A., 620
Buck, H. M., 815
Buck, J., 54, 60, 61
Buck, L. B., 464-66, 477, 479
Buckel, P., 105
Buckland, R., 99
Budarf, M. L., 182, 183, 185-87, 691, 696, 697
Buddecke, E., 859
Budker, V. G., 152
Budzynski, A. Z., 198, 205, 209, 210, 214, 218
Buetow, D. E., 120
Buettner-Janusch, V., 699
Buffoni, F., 719
Bugaisky, L. B., 54
Bugg, C. E., 806, 816
Buhler, J.-M., 166, 169
Buhrow, S. A., 277
Bui, P. T., 232
Buick, R. N., 448
Bujard, H., 394, 398, 417
Bukhari, A. I., 480
Bulen, W. A., 231, 232, 239, 241, 249
Bullard, B., 56
Bullock, P., 479
Bumol, T. F., 857
Bunce, S., 771, 782
Bunce, S. C., 774, 782
Buniel, J., 864
Buonassisi, V., 853
Burbach, J. P. H., 699
Burchard, W., 208
Burgers, P. M. J., 420
Burgess, B. K., 233-35, 241, 247, 248
Burgess, R. R., 78-80, 95, 391, 392, 396, 397, 402, 406-8, 410, 414, 417, 431
Burgus, R., 666, 671
Burini, J.-F., 252
Burka, L. T., 516
Burke, D., 651
Burke, J. M., 739
Burke, M., 40, 41, 45, 49, 51, 54, 58, 61
Burkhart, J. P., 520
Burleigh, B. D. Jr., 452
Burness, A. T. H., 773
Burnett, G., 496, 507
Burnham, D. B., 286
Burns, R. C., 232, 250
Burres, N., 606
Burris, R. H., 232, 234, 237
Burton, C., 512
Burton, D. R., 771
Burton, Z. F., 78-80, 95, 392
Busby, S., 306, 417, 418
Busch, C., 853, 858, 860
Busch, H., 123
Bush, B. L., 561
Bushell, G. R., 743
Buss, J. E., 278
Butcher, M., 666, 671
Butcher, R. W., 263, 283
Butler, T. M., 63
Butler, W. T., 742
Butler-Browne, G. S., 54
Buttin, G., 457
Butzow, J. J., 837
Buzash-Pollert, E., 152
Byers, B., 177
Byers, P. H., 740-42
Byrne, H., 650
Byström, A. S., 78-80
Bystrov, N. S., 336
Bystrova, T. F., 144, 145

C

Cabral, J. M. P., 241
Cacciapuoti, G., 760
Caen, J. P., 215
Cahnmann, H. J., 384
Cairncross, I. M., 634
Caizzi, R., 471, 472
Caldarera, C. M., 750, 760, 772, 777
Calderwood, S. B., 500
Caldwell, P., 81, 87
Calos, M. P., 453, 471, 480
Calva, E., 431
Calvo, J. M., 435
Cambier, H. Y., 233, 235
Camier, M., 673
Cammack, R., 241
Campbell, A., 246
Campbell, G. R., 182
Campbell, J. W., 539, 542
Campbell, K. M., 89, 90
Campbell, R. A., 750
Campioni, N., 110
Canellakis, E. S., 750, 764, 765
Canellakis, Z. N., 750, 768, 781
Cann, G. M., 177, 183, 189
Cannon, D. J., 723
Cantatore, P., 120, 578, 579, 584, 586, 587
Cantoni, G. L., 504
Cantor, C., 177
Cantor, C. R., 127, 128, 135, 139, 140, 142, 145, 154, 809, 822
Cantor, C.R., 139
Cantor, J. O., 739
Cantrell, M. A., 647, 648
Canuel, L. L., 805, 811
Cao, A., 353
Capaldi, R. A., 597, 601
Capecchi, M. R., 461, 464
Capiau, C., 620
Caplan, A. I., 854
Caplow, M., 498
Capone, G. T., 281, 283
Capony, J. P., 47, 48
Cappelletti, R., 862, 863
Capra, J. D., 666, 670
Caputo, C. B., 851, 854
Caradonna, J. P., 817, 818
Carbon, J., 105, 165, 166, 168-73, 190, 343, 378
Carbon, P., 120, 122, 123, 125, 127-30, 136, 153
Carbone, A., 223
Cardenas, J., 249, 251
Cardillo, T. S., 90
Carlin, S. C., 457
Carlson, F. D., 58
Carlsson, P., 436
Carlstedt, I., 854, 855, 857
Carlström, C., 854
Carnes, W. H., 738, 741, 742
Carney, D. H., 265
Carney, D. N., 448
Carnright, D. V., 464
Carothers, A. M., 475
Carpenter, A. T. C., 455
Carpenter, F. H., 384
Carpenter, G., 261, 277
Carpousis, A. J., 392, 401, 412-14, 416, 422
Carr, M. E. Jr., 208
Carr, S., 724
Carrell, N., 202, 216
Carrell, R. W., 701
Carroll, R. J., 673, 674, 696, 704
Carroll, W. R., 199
Carteni-Farina, M., 750, 760
Carter, C. W., 316
Carter, D. D., 756, 766, 767
Caruthers, M. H., 326-29, 331, 333, 334, 336, 588, 677
Casanova, C., 780
Casara, P., 760, 762
Cashel, M., 97-99, 102, 106, 109, 413, 416
Cashion, P. J., 677

Caskey, C. T., 456, 459
Caspar, D. L. D., 54
Cass, L., 312
Cassell, D. J., 278, 279
Cassiman, J. J., 864
Cassman, K. G., 198
Castagna, M., 281, 287
Castellot, J. J., 864
Casti, A., 772, 777
Castleman, H., 813, 817
Casu, B., 852
Cathala, G., 454, 471
Catt, J. W., 649, 650
Cavalier-Smith, T., 178, 180, 184
Cavin, S. I., 862
Cech, C. L., 336, 401, 409, 413, 414, 417
Cech, T. R., 150
Celio, M. R., 808, 832
Cella, C., 863
Cereghini, S., 834, 838
Cerretti, D. P., 79, 82
Cha, S., 530
Chaconas, G., 480
Chadwick, P., 299
Chagniel, G., 200
Chai, Y. C., 123
Chaiken, I. M., 676
Chaires, J. B., 154, 817, 819, 839
Chakmakcheva, O. G., 327
Chakravarty, P. K., 498
Chakrawirty, P., 498
Challoner, P. B., 182-87
Chambard, J.-C., 282
Chambat, G., 637, 638, 651
Chamberlin, M. J., 100, 390-94, 396, 398, 401, 406, 408-10, 412, 413, 417, 419, 422, 427, 431
Chambliss, G., 120
Chambon, P., 687, 689, 834
Chan, C. S. M., 181, 451, 480
Chan, L., 676
Chan, S. J., 340
Chan, W., 222
Chan, W. Y., 222, 780, 781
Chan, Y.-L., 121-23, 136, 152
Chandler, M., 480, 481
Chandrasegaran, S., 134, 150
Chandrasekaran, R., 542, 803, 804, 828
Chandrasekhar, S., 861
Chaney, S. G., 98, 109
Chang, A. C. Y., 466, 668, 670, 672, 677, 680, 692
Chang, C.-C., 457, 525
Chang, D., 269
Chang, D. D., 581
Chang, G. T. G., 215
Chang, G. W., 359-61, 364, 384
Chang, K. J., 702, 703, 743
Chang, K.-J., 703
Chang, S. H., 341
Chang, Y.-H., 742, 854
Chanzy, H., 630, 631
Chapman, A. B., 432, 466
Chapman, K. A., 805, 822, 825
Chapman, N. M., 153
Chapman, W. L. Jr., 761
Chappel, S. C., 668
Charli, J. L., 676
Charlier, G., 761
Charney, E., 817
Charpin, N., 244
Chasin, L. A., 464, 475
Chattard, J., 517
Chatterjee, C. L., 805, 811
Chattoraj, D. K., 771
Chayen, R., 750, 760, 769, 776, 782
Chelm, B. K., 408, 418
Chen, A. B., 216
Chen, C. L. C., 692
Chen, C. W., 819
Chen, C.-W., 805, 811, 821
Chen, E. Y., 587
Chen, J.-S., 232
Chen, M.-W., 120, 129, 135
Chen, R., 207, 214, 217, 617
Chen, S. Y., 763
Chen, Y. D., 64
Chenchik, A. A., 420
Cheng, C.-F., 860
Chernausek, S. D., 275
Cherry, J. M., 182, 183, 185-87
Cheung, D. T., 732, 733
Cheung, H. C., 41, 46, 50, 51
Cheung, P., 61
Cheung, P. H., 67
Chevrier, B., 517
Chi-Rosso, G., 859
Chiang, C.-S., 457
Chiang, J., 456
Chiang, P. K., 504
Chiao, Y. C., 65, 67
Chiarugi, V., 862
Chiarugi, V. P., 863-65
Chichkova, N. V., 127, 128, 139
Chikaraishi, D. M., 677
Chimenti, F., 780
Chin, D. J., 456, 458, 459
Chin, T. K., 45
Chin, W. W., 669, 671, 677
Chinault, A. C., 456, 459
Chinkers, M., 277, 278
Chiou, S.-S., 182
Chippaux, M., 252
Chisnell, J. R., 234, 235
Chiu, A. Y., 666, 671
Chiu, P., 337, 338, 341
Chizzonite, R. A., 54
Choay, J., 852
Choi, H. V., 863
Choi, J., 457
Choi, J. H., 755, 762
Chomyn, A., 575
CHOTHIA, C., 537-72; 540-47, 549-53, 555-67, 607, 608
Chou, K. C., 541
Chou, P. Y., 540, 564
Chou, T. C., 20
Choudhuri, M. M., 758
Chow, F., 328
Chow, J. Y., 371
Chow, M. B., 179
Chretien, M., 666, 670, 698, 701
Christen, P., 495
Christensen, T., 81, 84, 85, 95
Christiansen, L., 80, 87
Christianson, L., 348, 349
Christianson, T., 579, 580, 588
Christie, G. E., 424, 427, 428, 431
Christner, J. A., 235, 857
Christner, J. E., 861
Christou, G., 249
Christou, N. Z., 650
Chu, M.-L., 740
Chumpitazi, B., 630
Chung, B. H., 616
Chung, D. W., 220, 222, 666, 669, 670, 699, 700
Chung, E., 732
Chung, S. I., 220, 781
Church, G., 316
Church, K., 175
Churchward, G., 105, 108
Chuvpilo, S. A., 336
Ciampi, M. S., 432
Cierniewski, C. S., 201
CIVELLI, O., 665-715; 687, 691
Civin, C. I., 769
Clark, B. F. C., 130
Clark, G., 512
Clark, W. A., 54
Clarke, A. E., 642, 644, 647-49
Clarke, J., 649, 650
Clarke, L., 165, 166, 168-71, 190, 378
Clarke, M. L., 64
Clarkson, S. G., 836
Claverie, N., 760, 762, 767, 768
Clayton, C. E., 458, 467, 468, 470-72, 477, 482, 483
CLAYTON, D. A., 573-94; 120, 122, 123, 136, 151, 152, 155, 574-82, 584-87, 590, 592
Cleland, R. E., 628
Cleland, W. W., 530
Clemans, S., 771, 782
Clement, J. M., 453

Cline, K., 629, 650
Clutterbuck, A. J., 754
Cochet, M., 680, 692
Cochran, B. H., 284
Coen, E. S., 455
Coffey, D. S., 479
Coffino, P., 755, 757, 762, 767, 769
Coffman, R. L., 108, 109
Coggins, J. R., 392
Cogoli, M., 495
Cohen, C., 38, 45, 55-57, 62, 63, 65, 204
Cohen, F. E., 550, 552-54, 556, 564
Cohen, J. S., 805, 811, 819, 821
Cohen, L. H., 110
Cohen, M. P., 733
Cohen, P. P., 22, 282, 673
Cohen, S., 261, 267, 268, 271, 277, 278, 280, 666, 671, 688, 704
Cohen, S. N., 466, 680, 692
Cohen, S. S., 377, 750, 755, 760, 763, 764, 770, 773, 781
Cohn, D. V., 668
Cohn, M. S., 359, 374-76, 753, 754, 758-60, 772, 775
Cohn, R. H., 864
Colburn, P., 853
Cole, R. D., 294, 666, 670
Coleman, P. F., 458
Colflesh, D. E., 55
Collen, D., 209, 215
Collett, M. S., 278
Collier, K. J., 340, 669, 671, 678, 703
Collins, J. H., 40, 63, 450
Collins, M., 280
Collins, M. L., 605
Collins, S. J., 462, 470
Collinson, K., 236, 237, 251
Collison, D., 249
Colombo, G., 521
Coltoff-Schiller, B., 739
Comb, M., 670-72, 678, 680, 690, 705
Combriato, G., 453
Comer, M., 105
Comper, W. D., 848
Comstock, L. J., 417
Conaway, R., 430
Cone, R., 703
Conklin, K., 100
Conlon, J. M., 673
Conner, B. J., 342, 347, 352, 353
Conner, B. N., 803, 808
Connolly, M. L., 557, 558
Conradson, S. D., 234
Constable, B. J., 721
Contente, J. E., 97, 99, 106
Cook, K. A., 232
Cook, V., 739
Cooke, R., 41, 66, 67
Coon, M., 524
Cooney, S., 498
Cooper, C. G., 736, 738
Cooper, H. L., 776, 780, 781
Cooper, J., 58
Cooper, J. A., 278
Cooper, J. B., 645, 648
Cooper, T. G., 166, 169
Cooperman, B. S., 145, 152, 155
Coppoc, G. L., 750
Corbett, A. D., 696, 703
Corbin, J. L., 233-35, 241
Cordell, B., 345
Corderre, J. A., 456
Corey, E. J., 522
Corey, R. B., 539, 540, 560
Corlet, J., 836
Corriea, M. A., 513, 515
Corti, A., 376
Cossart, P., 306
Cossu, C., 864
Cossu, G., 850
Costa, E., 687, 693, 702
Costa, J., 769
Costello, M. A., 466
Cöster, L., 854, 855, 857, 863
Costrini, N. V., 275
Coté, G. P., 63
Cottrell, B. A., 196, 198, 203, 206, 209, 211, 214, 217, 222, 223
Cottrell, I. W., 642
Coulson, A. R., 120, 122, 123, 136, 152, 344, 574-76, 578, 584, 586, 587, 590, 679
Coulson, H., 332
Court, D., 80, 97, 390, 402, 403, 422-24, 426-28, 431, 437
Courtois, Y., 266
Coutifaris, C., 668
Couturier, J., 177
Cove, D. J., 246
Covey, D., 520
Covey, D. F., 528
Cowan, K. H., 448
Coward, J. K., 760, 763, 767
Cowell, J. K., 448, 449, 461, 467, 469, 471, 470
Cox, B. A., 738
Cox, B. M., 699
Cox, D. L., 734
Cox, J. V., 173
Cozzarelli, N. R., 771
Cozzone, A. J., 98-101, 107
Crabtree, G. R., 219, 220, 222, 223
Craig, E. A., 451
Craig, I. W., 151, 155, 586
Craig, J. W. T., 651
Craig, R., 36, 38, 39, 45, 54-56, 62, 65
Cramer, J. H., 454
Cramer, S. P., 234, 245
Crapo, J. D., 742, 743
Crasnier, M., 649, 650
Craven, G. R., 120
Crawford, I. P., 435
Crawford, J. L., 540, 558, 794, 795, 799-801, 803, 804, 811, 812, 819, 820
Crawford, R., 669, 671, 677
Crea, R., 333, 334, 337, 341, 345, 677, 678, 804
Creasman, C. M., 725, 726, 732
Crechet, J.-B., 776
Creeth, J. M., 647
Creighton, T. E., 557, 558, 561, 562
Crespi, H. L., 600
Cretney, W. C., 232
Crettaz, M., 278
Crews, S., 576-79, 581, 582, 587-89
Crick, F. H. C., 134, 295, 296, 547, 793, 817
Crine, P., 674
Crippen, G. M., 546, 557, 558
Criscuolo, B. A., 457
Crombie, G., 738
Cronk, M., 341
Croquette, M. F., 177
Cros, J., 702
Crothers, D. M., 127, 128, 146, 157, 306, 398, 400, 805
Crouse, G. F., 464, 472
Crowder, M. S., 66, 67
Crumm, S., 666, 670
Csordás-Tóth, E., 97
Cuatrecasas, P., 261, 266, 275, 277, 279
Cullis, P. M., 562, 563, 606-8
Culp, L. A., 857, 864
Cummings, D. J., 120, 122, 123
Cummings, I. W., 126, 135
Cundliffe, E., 147, 151, 156
Cunningham, D. D., 265, 668
Cunningham-Rundles, S., 752
Curley-Joseph, J., 734
Curt, G. A., 448
Cuzin, F., 461
Cygler, M., 319
Cywinski, A., 739
Czech, M. P., 269, 275, 277, 280

D

Dabagov, N. S., 370, 384
Dabbs, E. R., 79, 89
d'Abramo, F., 23
Dabrowski, J., 626
Dahlberg, A. E., 98, 100, 151
Dahlberg, J. E., 97, 151, 152, 155, 438
Dai, Y.-V., 758
Dalbey, R., 41
Dalgarno, D. C., 45
Dalgarno, L., 151, 586
Dalla Favera, R., 462
Dancis, B. M., 176, 177, 179, 180, 184
Dandekar, S., 676, 703
Dani, G. M., 191
Daniels, D. L., 438
Daniels, G. R., 756, 766, 772, 777
Daniels, J. R., 756
Daniels, S., 498
Danishefsky, A., 805
Danishefsky, I., 863
Dannenberg, P., 525
Dante, R., 813
Dante, S. P., 859
Danzin, C., 760, 762, 767, 768
Dardik, B. N., 208
Darling, T., 103, 273, 275, 277
Darlix, J.-L., 120, 422, 426
Darnule, A. T., 739
Darnule, T. V., 739
DARVILL, A. G., 625-63; 626, 627, 630-32, 634, 638-42, 653, 654, 656, 657
Das, M., 275
Dasenberg, K., 525
Dasgupta, A., 278
Datko, A. H., 633
Dattagupta, N., 805
Daub, E., 204
Daughaday, W. H., 266
Daune, M., 808, 826, 829
Dave, C., 377
Davenport, H. W., 373
Davenport, L. W., 586, 587
Daves, G. D. Jr., 750
David, G., 864
David, J. P., 456
Davidson, J. M., 719, 738
Davidson, N., 576
Davidson, P. F., 723
Davidson, R. L., 457
Davie, E. W., 24, 220, 222
Davies, D. B., 802, 812
Davies, D. R., 557, 803
Davies, D. S., 699
Davies, J., 120, 150
Davies, J. E., 151, 152
Davis, G. R., 79, 80, 82
Davis, J. S., 54, 60, 61
Davis, K., 120
Davis, K. R., 653, 654
Davis, L. C., 232, 235, 237
Davis, M. A. F., 638
Davis, N. R., 720, 722, 736, 737
Davis, R. H., 754, 768, 781
Davis, R. W., 165-67, 169, 170, 337, 338, 343, 576, 679
Davison, P. F., 732
Davril, M., 738
Dawes, J., 860
Dawid, I. B., 111, 449, 450, 455, 577
Dawson, D., 183
Dawson, M., 90
Day, R. O., 794
Dayhoff, M. D., 563
Daynes, R. A., 864
Dea, I. C. M., 627, 638
Dean, D., 77, 79, 81-85, 87, 88, 148
DeAnda, J., 313
Dearborn, D. G., 383
Deatherage, J. F., 601
Debatisse, M., 457
De Benedetto, C., 586, 587
Debenham, P. G., 98, 99, 457
deBoer, H. A., 93, 97, 98, 336, 417
de Bruijn, M. H. L., 120, 122, 123, 136, 152, 574-76, 578, 584, 586, 587, 590
de Cicco, D. V., 455
De Clerck, Y. A., 739
de Crombrugghe, B., 306, 417, 418, 429, 437
Dee, P. C., 669, 671, 672, 677
Deeb, S. S., 677
Defendi, V., 459
Deftos, L. J., 666, 671
Deganellos, S., 604
Degen, J. L., 359, 374, 376, 377, 758, 767
DeGrado, W. F., 613
de Haas, G. H., 604, 605
deHaseth, P. L., 303, 336, 396, 397, 407
Dehlinger, P. J., 764
Deisenhofer, J., 539, 540
Delain, E., 813
de Lange, T., 177
DeLarco, J. E., 261, 266-68, 273, 275, 277, 280, 281, 286
Delasalle, H., 337
Delbruck, M., 467
Delbrück, S., 461, 464
del Campillo-Campbell, A., 246
Delihas, N., 120, 129, 135, 146
Dell, A., 613, 615, 626, 637, 638, 641, 653, 654
Della Ragione, F., 760, 778
Delmer, D. P., 627, 631, 632, 634, 640, 642
Del Rosso, M., 862, 863
Deltech, B., 859
De Luca, S., 854
DeMaeyer, E., 336
DeMaeyer-Guignard, J., 336
DeMatteis, F., 516
Dembek, P., 327, 345, 348
de Meis, L., 779
Demetriou, A., 374, 376
Demetriou, A. A., 758, 759
DeMeyts, P., 268, 269, 275
DeMoss, J. A., 236, 245, 247, 252
Demou, P. C., 626
Demple, B., 529
Dengler, B., 126
Dennis, D., 413
Dennis, E. A., 377, 378
Dennis, P. P., 76, 78, 80-85, 87, 88, 91, 92, 94, 95, 105, 106
DeNoto, F. M., 345
den Uijl, C. H., 640
Deppe, C. S., 108, 109
Derbin, C., 808, 831, 832
Derbyshire, R., 344, 348
de Regt, V., 123, 136
DeRiemer, L. H., 421
DeRose, M. L., 461, 464-66, 471
DeRosier, D. J., 37, 38, 42, 43
Desai, N. N., 647
Deschenes, R. J., 669, 671, 677, 678
Deshmukh, K., 723
Deters, J., 754
Deuel, T. F., 269, 270, 278
D'Eustachio, P., 680
Dev, V., 457
Devare, S. G., 269, 270, 461
de Vasconcelos, L., 252
deVera, A., 390, 422, 427
DeVries, J., 233, 235, 236, 246
de Vries, J. A., 640
de Wachter, R., 120, 129, 135
Dewey, M. M., 55, 56
Deyl, Z., 737
D'Haese, J., 59, 60, 62
Dhar, R., 834
Dhingra, M. M., 812, 819
DiCapua, E., 804, 805, 808, 809, 811, 822, 824, 826, 829, 830, 841
Dice, J. F., 764
DiCesare, P., 733
Dicke, M., 91
Dicker, P., 266, 280, 281
Dickerson, R. E., 319, 539, 540, 771, 801, 803, 804, 808

DiCorleto, P. E., 266
Dieckmann, B., 464, 466
DiFerrante, N., 741
Digan, M. E., 451
DiGianfilipo, F., 739
Di Giulio, A. M., 693, 702
Dijkstra, B. W., 604, 605
Dikshit, D., 509
DiLauro, R., 437
Diliberto, E. V., 702, 703
Diller, E. R., 666, 671
DiMaio, D., 343
Dinkelspiel, K., 804
Dion, A. S., 755, 781
Dionne, F. T., 692
Dittmar, K. E. J., 671
Dix, D. B., 775
Dixon, G. H., 313
Dixon, H. B., 364
Dixon, J. E., 669, 671, 678
Dixon, J. S., 666, 670, 699
Dixon, R., 248, 251, 252
Dobberstein, B., 675, 696
Dobbs, E. R., 150
Dobbs, L. G., 779
Dobrynin, V. N., 336
Docherty, K., 696
Dockray, G. J., 264, 673
Dodd, J. A., 148
Dodgson, J. B., 338
Dodson, G. G., 549
Doel, M. T., 336
Doel, S. M., 341, 342
Doemeny, P. A., 241
Doerfler, W., 820, 821, 840
Doi, R. H., 418
Dolnick, B. J., 466
Donady, J. J., 48
Donahue, J. P., 436
Dondon, J., 152
Donelson, A. R., 332
Donini, P., 100, 183
Donis-Keller, H., 584
Donnelly, P. V., 741
Donovan, J. J., 620
Doolittle, L. R., 197, 220
DOOLITTLE, R. F., 195-229; 196-99, 205-7, 210-14, 220, 222, 461, 562, 565, 575, 607-9, 616-18, 679
Doolittle, W. F., 120, 129, 135
Dorfman, A., 736, 848, 851, 854
Dorland, L., 626
Dorner, A. J., 696
Dorper, T., 328, 333
Dos Remedios, C. G., 66
Dottavia-Martin, D., 145
Doty, P., 127, 128, 313, 341
Doudoroff, M., 21
Douglas, W. H. J., 860
DOUGLASS, J., 665-715
Douthwaite, S., 120, 127-30, 134, 135, 147, 148
Dover, G. A., 455
Dover, S. D., 57
Dowben, P., 53
Dowhan, W., 359, 377, 378
Downey, K. M., 413
Downing, W. L., 84
Drahos, D., 431
Drahovsky, D., 821
Draper, R. K., 620
Dratz, E. A., 616
Drenckhahn, D., 62
Drenth, J., 604, 605
Dressel, A., 394, 398, 417
Dressler, D., 450
Drew, H. R., 319, 771, 801, 803, 804, 808
Dron, M., 122, 152
Drouin, J., 587, 680
Drucker, B., 52-54
Dubin, D. T., 574, 580, 585-87, 770
Dubordieu, M., 246
Dubos, R., 16
Dubrow, R., 261, 284
Duchesne, M.-C., 457, 755, 757, 762, 760
Duck, P. D., 325, 326, 328
Dudock, B. S., 675
Duell, T. F., 461
Duester, G. L., 96, 98
Duff, C., 457, 470
Duff, R. B., 642
Dugaiczyk, A., 331
Duguid, J. R., 696
Duisterwinkel, F. J., 91
Dujon, B., 151, 155
Dull, T. J., 97, 98, 120, 121, 123, 131, 133, 267, 271-74,
342, 669, 671, 679, 682
Duncan, A., 724, 726, 731
Dunker, A. K., 547, 606
Dunlap, J. C., 755
Dunn, D. M., 739
Dunn, J. J., 146, 152
Dunn, R., 341
Dupont, A., 690, 699
Durand, M., 837
Durst, F., 515
Durst, H. D., 384
Duthie, E. S., 216
Dutrillaux, B., 177
Dutton, G. G. S., 634
DuVigneaud, V., 666, 670
Dyer, T., 120
Dziewiatkowski, D. D., 861

E

Eady, R. R., 232, 251, 252
Easton, C., 500
Eaton, B. L., 58
Eaton, M. A. W., 341, 342
Ebel, J.-P., 85, 120, 122, 123, 125, 127-29, 147, 148, 152, 153, 155, 586, 629, 653
Eberhardt, N. L., 668
Ebert, P., 770
Ebina, Y., 431
Eble, A. S., 743
Ebright, R. H., 306, 307, 310
Echols, H., 294
Eckermann, D. J., 155
Eckhart, W., 461, 464
Eckstein, F., 41, 177, 186, 413, 420
Eda, S., 632, 640, 642, 652
Edenberg, H. J., 479, 483
Edgar, D., 261, 266
Edge, M. D., 330, 334, 336
Edgington, T. S., 201
Edlind, T. D., 127, 128
Edlund, T., 436, 453, 471
Edmundson, A. B., 311, 610
Edsall, J. T., 216, 606
Edwards, J., 120, 123, 805, 824
Edwards, K., 120, 125, 129, 586
Efimov, A. V., 547, 557
Efimov, V. A., 327
Efstratiadis, A., 337
Egan, J., 431
Egan, R., 523
Egan, T., 332
Egberg, N., 199
Egelman, E. H., 43
Egge, H., 626
Eggleton, P., 5
Egmond, M. R., 605
Ehrenberg, A., 457
Ehrenberg, M., 100
Ehresmann, B., 120, 122, 123, 128
Ehresmann, C., 120, 122, 123, 125, 127-30, 136, 152, 153
Ehrlich, K., 508
Eichhorn, G. L., 837
Eiden, L., 670-72, 678
Eigen, M., 398
Eipper, B. A., 274, 668, 673, 674, 696-99, 701, 702
Eisen, H., 438
EISENBERG, D., 595-623; 565, 602, 603, 607, 609-11, 616, 617, 619
Eisenberg, E., 36, 64
Eisenman, R., 671
Ek, B., 266, 270, 275, 278
Ekman, G., 854
Ekman, R., 700, 701
Elemerich, C., 248
Elford, R. M., 98
Elfvin, M., 56
Ellezian, L. Y., 741

Elliot, Q. D., 769
Elliott, A., 38, 47, 49, 56, 57, 62, 65
Elliott, A. M., 450
Elliott, B. B., 238-40, 243
Elliott, D. F., 666, 671
Elliott, E. M., 457
Elliott, G. F., 56, 57, 64
Elliott, P., 380
Ellwood, M., 79, 96
Elmerich, C., 244
Eloranta, T., 760, 763
Elsden, D. F., 723, 724, 734, 736
Elson, D., 145, 152
Elvin, L. G., 702
Ely, B. K., 348, 349
Elzinga, M., 40, 47, 48
Emanuelsson, H., 757, 761
Emerich, D. W., 232
Emerson, C. P. Jr., 48
Emery, H. S., 182, 183
Emery, T., 241
Emes, C. H., 58
Emr, S. D., 78
Emtage, J. S., 341, 342
End, D., 282
Endean, R., 666, 671
Endo, A., 456
Endo, H., 776, 777
Endow, S., 455
Endres, G. F., 207, 209
Engberg, J., 450
Engel, J., 734, 862
Engelhardt, W., 16
Engelman, D. M., 600, 606, 607, 617
English, A. R., 499
English, P., 651
Engstrom, A., 613, 615
Engvall, E., 862
Enomoto, T., 178
Eperon, I. C., 120-23, 136, 152, 574-78, 582, 584, 586, 587, 590
Epps, H. M. R., 372
Epstein, H. F., 54
Epstein, L., 645, 646, 648
Epstein, R. H., 89
Erbe, R. W., 740
Erdei, S., 97
Erdmann, V. A., 120, 124, 127, 146, 150, 154, 773
Erickson, B. W., 325
Erickson, H. P., 201-3, 205, 207, 208, 216
Erickson, R. L., 278
Erikson, R., 28
Eriksson, S., 859
Erlanger, B. F., 469, 813, 817, 818
Erspamer, V., 666, 671
Erwin, B. G., 760
Esch, F., 666, 671
Esch, F. S., 669, 696, 700, 701, 703
Eshhar, Z., 278, 283, 285
Espin, G., 251, 252
Esposito, R. G., 236, 240, 242
Esquerré-Tugayé, M. T., 648
Essani, A. K., 470
Estabrook, R., 518
Estis, L. F., 201, 203, 204
Estivariz, R., 700
Euteneuer, U., 174
Eva, A., 461
Evan, H., 234
Evans, C. J., 703
Evans, D., 450
Evans, H. J., 232, 241
Evans, J. E., 392
Evans, R. M., 669, 683, 684, 693
Evans-Blackler, S., 457, 470
Everett, A. W., 54
Evstafieva, A. G., 144, 145
EYRE, D. R., 717-48; 722-35, 740-42
Ezra, E., 666, 670

F

Fábián, F., 40
Fabian, H., 120, 129, 135, 146
Fabijanski, S., 110
Fahnestock, S., 150
Fairclough, R. H., 601
Fairfield, F. R., 85, 90
Fairweather, R. M., 642, 721, 722
Falco, S. C., 167
Fallon, A. M., 78, 80, 81, 86, 87, 93
Falmagne, P., 620
Faloona, G. R., 673
Fan, D.-F., 633
Fanburg, B. L., 860
Fangman, W. L., 177, 185
Fanning, E., 313
Farah, J. M., 690
Faras, A. J., 451
Faris, B., 727, 736, 738, 739
Farley, J. R., 266
Farnham, P. J., 422-25, 427, 428
Farnham, S. B., 561
Farquhar, M. G., 855
Farrar, J., 266
Faruqi, A. R., 64-66
Fasman, G. D., 540, 564, 821
Faust, J. R., 456, 458, 459
Fawcett, P., 668, 673
Fay, P., 252
Feigin, L. A., 359, 371
Feigina, M. Y., 599, 614
Feigon, J., 805, 812, 817, 819, 821
Fekete, F. A., 241
Feldberg, W., 19
Felder, H., 181
Feldhaus, R., 507, 508
Feldman, D. S., 604
Feldman, R. J., 607, 608, 614, 616
Fellner, P., 122, 123
Felsenfeld, G., 689, 771, 803, 804, 809, 817, 819-21, 828, 840
Fendrich, G., 511
Fenna, R. E., 604
Fenselau, C. C., 528
Fenwick, R. G. Jr., 459
Ferguson, E. W., 201
Fermi, G., 540
Ferry, J. D., 51, 206, 207, 209, 214, 216
Feughelman, M., 316
Feunteun, J., 147
Fiandt, M., 432
Fibbi, G., 863
Field, J., 178
Field, M. J., 719
Fielding, A. H., 657
Fielding, L., 377
Fields, R., 384
Fields, S., 342
Fiers, W., 588
Fiil, N., 78, 81, 95, 348, 349
Fiil, N. P., 80, 81, 84, 85, 87, 91
Fillers, J. P., 204
Fillingame, R. H., 376, 750, 755
Filman, D. J., 540
Filser, M., 248
Fincher, G. B., 636, 644, 647-49
Finelli, F., 653
Finelli, J., 152
Finer-Moore, J., 611, 618
Finger, L. R., 429
Fink, G., 165
Fink, M. L., 781
Finkelstein, A. V., 542, 557, 558, 564
Finlayson, J. S., 220
Finney, J. L., 544, 546
Finnie, M. D. A., 696, 697, 699
Firestone, R., 502
Fischer, D., 332
Fischer, E. H., 755, 755
Fischli, W., 666, 670, 673, 703
Fiser, I., 152
Fish, S., 504
Fisher, E., 28
Fisher, E. F., 328, 588
Fisher, H. F., 565
Fisher, M. L., 651
Fisher, R. F., 423, 428
Fisher, R. G., 296-98, 303, 304, 314-16, 405

Fisk, D., 741
Fiske, C., 5
Fitten, J. E., 613, 615
Fitzgerald-Hayes, M., 166, 169-71, 173
Fitzpatrick, S., 266
Flacks, M., 450, 451
Flamm, E. L., 425, 437
Flashman, S., 294, 299
Flavell, R. B., 180, 181, 185
Fleischer, N., 690
Fleming, M., 636
Fletcher, D. J., 673
Fletterick, R. J., 566
Flicker, P., 38, 40, 45
Flinta, C., 610
Flintoff, W. F., 470
Flores, H. E., 758
Florini, J. R., 760
Flückiger, R., 722
Flynn, G. A., 520
Fogel, S., 454, 456, 471
Fogg, G. E., 252
Foley, D., 100
Folger, K. R., 461, 464
Folk, J. E., 776, 780, 781
Folk, W. R., 452, 459
Folkmanis, A., 294
Foltermann, K. F., 436
Fong, D., 620
Fong, N., 267, 271, 273, 274, 669, 671
Fontecave, M., 517
Forand, R., 273, 673
Forbes, D., 437, 438
Forchammer, J., 105
Ford, L. E., 67
Forlani, L., 649, 650
Forrence, L. E., 651
Forsen, S., 771
Forte, M. A., 185
Foster, D. N., 284, 287
Foster, J. A., 736, 738, 739, 742
Fothergill, L. A., 666, 670
Fournet, B., 626
Fowler, W. E., 43, 201-3, 205, 207, 208
Fox, C. F., 275, 280
Fox, G. E., 124, 129, 134, 135, 156
Fox, J. L., 361, 362, 369-71
Fox, M., 468
Fox, R. O., 600, 602, 620
Fox, T. D., 151, 588
Fozard, J. R., 505, 761
Franchi, A., 282
Francis, C. W., 196, 197, 214
Francis, G., 736, 741
Francis, M. J. O., 743
Franco, A. A., 239
Frangau, S. A., 862
Frankel, L., 739
Franklin, N. C., 437
Fransson, L.-Å., 855, 857, 863, 865
Franz, G., 630, 631, 644
Franzblau, C., 722, 723, 727, 736, 738, 739
Franzen, J. S., 561
Franzén, L. E., 626
Fraser, C. G., 634
Fratini, A. V., 803
Fratta, W., 693, 702
Frayne, L. G., 456
Frazer, J. R. E., 859
Frazier, W. A. III, 233, 235, 273, 275
Freeman, L. E., 642
Freeman, R., 52, 55
Frelinger, A. L., 693
French, C., 168, 176, 180, 181
Fretto, L. J., 201, 202, 215
Freund, A. M., 808, 826, 829
Freundlich, A., 52
Frey, P., 273, 673
Frey, S., 53
Fried, H. M., 110
Fried, M. G., 306, 398, 400
Friedkin, M., 284, 457
Friedman, D. I., 425, 437, 438
Friedman, J., 457
Friedman, R., 758
Friefeld, B. R., 178
Friend, C., 769
Friend, J., 635
Friesen, G. D., 233-35, 247, 248
Friesen, H. G., 266
Friesen, J. D., 80, 84, 91, 102
Friezner, S. J., 198
Fritsch, E. F., 675, 676, 679
Fritz, H.-J., 349
Fritz, O. G., 208
Frolik, C. A., 266-68, 282, 286
Fromageot, P., 413
Froscio, M., 280, 281
FRY, S. C., 625-63; 635, 643-45, 648-50, 656, 657
Fu, J. C. C., 742
Fucci, L., 524
Fuchs, E., 401, 408, 413
Fuchs, G., 239
Fuchsman, W. H., 250
Fuentes, J. A., 703
Fujie, M., 729
Fujihara, S., 781
Fujii, K., 720, 723, 740
Fujii, S., 796, 801, 803, 804, 814, 817, 820, 821
Fujii, T., 648
Fujimoto, D., 724-26, 729, 735, 736
Fujimoto, S., 306
Fujisawa, H., 757
Fujita, K., 757, 765
Fujita, T., 267, 271
Fujita-Yamaguchi, Y., 278
Fukada, A., 703
Fukami, Y., 28
Fukasawa, K., 241
Fukata, J., 701
Fuke, M., 121, 122, 152
Fukita, K., 765
Fukuda, R., 77, 81, 83
Fukuhara, H., 120, 122, 123, 151, 152, 155, 584
Fukui, S., 864
Fukuma, I., 773
Fuller, F., 730
Fuller, G. M., 219, 221
Fuller, R. S., 428
Fuller, W., 803
Funakoshi, I., 854, 855
Funckes, C. L., 669, 671, 677
Furano, A. V., 283
Furlan, M., 208, 211
Furthmayr, H., 732, 734, 862
Furutani, Y., 669-72, 678, 679, 682
Fuscoe, J. C., 459

G

Gabbay, K. H., 701
Gabriels, J. E., 806, 807
Gadaleta, G., 120, 584, 586, 587
Gaffney, P. J., 209, 214
Gage, L. P., 341, 451, 670-72, 678
Gahl, W. A., 780
Gainer, H., 673, 674
Gaines, G. L., 579, 580, 591
Gait, M. J., 326, 327, 330, 342
Gajdusek, C. M., 266
Galanakis, D. K., 216
Galas, D. J., 98, 392, 410, 417, 422, 480, 481
Gale, E. F., 372, 373
Gall, J. G., 111, 168, 177, 182, 185, 186, 189, 449-51
Gallager, M., 40
Gallant, J., 77, 99, 100, 102, 390, 469
Gallerani, R., 120, 584, 586, 587
Galletti, P., 750
Galligani, L., 851
Gallo, R. C., 462
GALLOP, P. M., 717-48; 383, 719-23, 728, 732, 736, 737, 739
Galloway, J. L., 430
Galluppi, G. R., 328, 335, 429
Galston, A. W., 758
Game, J. C., 469
Gamper, H. B., 420, 421, 423-25
Ganelin, V. L., 233, 235, 236
Gantt, J. S., 457
Garavito, R. M., 597, 598, 600
Garcia de la Torre, J., 50

Gardella, A., 500
Gardlund, B., 196, 198, 199
Gardner, K. H., 630
Garett, R. A., 127, 128
Garfinkel, D., 233, 244, 252
Garges, S., 294, 306
Garland, F., 41
Garner, C. D., 249
Garrad, L., 528
Garrett, C., 526
Garrett, R. A., 120, 127, 129, 130, 134, 135, 146-50
Gaspar, T., 650
Gassen, H. G., 152
Gates, B. J., 284
Gates, R. E., 277, 565, 566
Gatti, M., 455
Gaugas, J. M., 750, 760
Gausing, K., 76-78, 80, 87, 91-95, 105, 107, 108
Gautier, C., 341
Gavaret, J. M., 384
Gavis, E. R., 186, 189
Gay, S., 733
Gayen, A. K., 531
Gazitt, Y., 769
Gee, C. E., 688, 692
Gegenheimer, P., 773
Gehring, W. J., 480, 483
Geiduschek, E. P., 391, 408, 418
Geiger, L. E., 769
Geisemann, W., 508
Geisler, N., 313
Gelfand, R., 574, 576, 578-82, 587-89
Gelin, B. R., 542-44
Gellatly, B. J., 544
Gellert, M., 98
Gelles, J., 561, 562
Genissel, B., 805
Georgatsos, J. G., 758
George, D. L., 460, 462, 471
Georges, F., 431
Georgiev, O. I., 123, 136
Georgopoulos, C. P., 438
Gerard, G. F., 413
Gerber, G. E., 599, 738
Gerber, L. D., 702, 703
Gerbi, S. A., 85, 148
Gergely, J., 40, 41, 48, 65-67
Gerhart, F., 762
Geroch, M. E., 750
Gerson, B., 740
Gerson, R. B., 775
Geschwind, I. I., 666, 670
Gessner, R., 803, 804
Gesteland, R. F., 775
Getz, M. J., 284, 287
Getzoff, E. D., 542, 555
Gevers, W., 29
Geyer, P. K., 110
Geyl, D., 80
Ghosh, B., 758
Ghosh, P., 743
Ghysdael, J., 278
Gianoulakis, C., 674, 698
Gibbs, A., 516
Gibson, J., 124
Gibson, W., 770
Gick, G. G., 456
Gicquel-Sanzey, B., 306
Gidley, M. J., 627, 638
Gierasch, L. M., 540
Gilbert, D. B., 561
Gilbert, F., 461
Gilbert, G. A., 216
Gilbert, S. F., 97
Gilbert, W., 127, 128, 271, 331, 344, 402, 403, 405, 407, 408, 410, 411, 422-24, 426, 431, 450, 679
Gilev, V. P., 53
Gilham, P. T., 327
Gill, G. N., 278
Gill, P.-J., 860
Gillam, S., 337, 341, 344, 347, 348, 839
Gillen, M. F., 325, 326, 328
Gillet, J. M., 761
Gillham, N. W., 111
Gillin, J. C., 693
Gillum, W. O., 234, 245
Gilman, M., 390, 422, 427
Gilman, M. Z., 406
Gimble, F. S., 313
Giniger, E., 45
Ginsburg, H., 855
Giordano, G., 252
Girard, A. E., 499
Girshovich, A. S., 152, 155
Gitomer, W., 280
Gittos, M. W., 780
Giudice, L. C., 676
Giulotto, E., 458, 466-68, 470-73, 477, 482, 483, 485
Gladkov, V. N., 370
Gladstone, L., 391
Glaeser, R. M., 600
Glanville, R. W., 273, 732, 733
Glaser, G., 97-99
Glaser, J. H., 245, 247
Glass, R. E., 100
Glatzer, L., 457
Glembotski, C. C., 696, 697
Glenn, K. C., 265, 275
Glick, J., 604
Glickman, B. W., 349
Glickson, J. D., 605
Glimcher, M. J., 722, 723, 731, 735, 740
Glimelius, B., 854-56, 858
Glitz, D. G., 144
Gloss, J., 859
Glotz, C., 125, 127, 129, 140-42, 145, 586
Glover, D. M., 452, 455
Glover, I., 539, 540
Gluzman, Y., 835
Godal, H. C., 199
Godfrey, J., 58
Godson, G. N., 78-80
Goeddel, D. V., 336, 341
Goidl, J., 285
Gold, L., 88-90, 151
Goldbaum, D. M., 197, 220
Goldberg, A. L., 100
Goldberg, M. E., 568
Goldberg, M. L., 480, 483, 689
Goldberger, G., 340
Goldemberg, S. H., 752, 774, 775
Goldenberg, M., 177
Goldfine, I. D., 279, 285, 286
Goldfisher, S., 739
Golding, B. T., 760
Goldman, A., 600, 617
Goldman, R. A., 336
Goldstein, A. L., 266, 666, 670, 673, 699, 703
Goldstein, J. H., 782
Goldstein, J. L., 284, 456, 458, 459, 860
Goldwasser, E., 266
Gollwitzer, R., 204
Goltermann, N. R., 704
Gonchar, N. A., 359, 370, 371, 384
Gonsoulin, F., 41
Gonzalez-Cadavid, N., 575
Goodall, M. C., 605
Goodman, H. M., 680
Goodman, R. H., 669, 671, 672, 676, 677
Goodman, T. C., 401, 805, 822, 825
Goody, R. S., 36, 43, 67
Gordon, J. K., 232, 233, 237, 244, 252, 283
Gorenstein, C., 109
Gorini, L., 753, 775
Gorovsky, M. A., 450
Gospodarowicz, D., 261, 266
Gossard, F., 674
Gosselin, G., 839
Gosule, L. C., 771
Goto, M., 241
Gotte, L., 738, 739
Gottesman, M., 418, 426, 428, 431, 437, 770
Gottesman, M. E., 426, 437, 438
Gottesman, S., 770
Gottschalk, A., 722
Gottschling, D. E., 150
Goueli, S. A., 776, 777
Gough, G. R., 327
Gould, A. R., 648
Gould, S. J., 760

GOURSE, R. L., 75-117; 85, 96, 98, 100, 103-5, 108, 111, 148, 151
Gouy, M., 341
Grabar, P., 196, 199
Grabowski, P. J., 150
Grachev, M. A., 421
Graeff, H., 196
Graf, L., 122, 152
Grafstrom, R. H., 452
Grahn, D., 741
Gralla, J. D., 401, 404, 406, 409, 411-16
Grant, G. A., 743
Grant, M. E., 733
Grant, R. C., 809
Grantham, R., 341
Grantt, J. S., 457
Granz, G., 635
Graslund, A., 457
Gray, A., 267, 271-74, 342, 669, 671, 679, 682
Gray, C. P., 599
Gray, H. B. Jr., 805, 825
Gray, J. W., 769
Gray, M. W., 120, 129, 135
Gray, P. W., 351
Gray, W. R., 736, 738
Grayhack, E. J., 437, 438
Grayhack, J., 750
Greaser, M., 51
Greaser, M. L., 51
Grebenshchikova, O. G., 371
Green, H., 457
Green, M. M., 455
Green, T. R., 656
Greenberg, B. D., 575, 589
Greenberg, M. L., 773
Greenblatt, J., 100, 425, 426, 437, 438
Greene, A. R., 330, 334, 336
Greene, E. P., 54, 60, 61
Greene, L. A., 261, 282, 283
Greene, R. C., 752
Greene, T. C., 209
Greenfield, L., 620
Greenwall, P., 155
Greer, J., 561
Gregory, H., 267, 268, 666, 671
Gregory, J. D., 22
Gregory, R. A., 696
Greider, C., 177, 807, 808, 831
Greiger, I., 817, 825, 828
Greiling, H., 853
Greisen, K. S., 464
Greppin, H., 650
Greve, J., 809
Grez, M., 670, 672
Gribskov, M., 392
Grieninger, G., 219
Griesmann, G., 780, 781
Griffin, K. P., 804, 809, 810
Griffin-Shea, R., 451
Griffith, O., 531
Griffiths, R., 719
Grindley, N. D. F., 480
Grineva, N. I., 152
Grinnell, F., 262
Grisolia, S., 22
Grohmann, K., 587
Gronenborn, B., 313, 344, 679
Groos, G. G., 649
Groschel-Stewart, U., 62
Gross, C. A., 78-80, 95, 392, 396, 398, 401
Gross, J., 733
Grossbruchhaus, V., 328
Grosschedl, R., 423, 689
Grossman, A., 392
Groudine, M. T., 462, 470
Grove, J., 457, 755, 757, 760-62, 767
Gruber, M., 98, 102
Grunberger, D., 817, 818, 839
Grunberg-Manago, M., 152
Grund, S. H., 457
Grundström, T., 436, 471, 472
Grunstein, M., 337
Grunwald, S., 821
Gruss, P., 834
Grutter, M. G., 313
Grynpas, M. D., 725, 726, 732
Guarente, L. P., 431, 432
Guarnieri, C., 772, 777
Guay, M., 738
Gubler, U., 340, 341, 669-72, 678, 703
Guckenberger, R., 204
Gudelsky, G. A., 693
Guengerich, F. P., 516
Guenzi, D., 697
Guerrier-Takada, C., 584
Guest, J. R., 312
Guillemin, R., 666, 669, 671, 700-2
Guillette, B. J., 275
Guirard, B. M., 19, 358, 360, 361, 364, 384
Guitton, J. D., 743
Gunja-Smith, Z., 723, 725, 742
Guntaka, R. V., 469
Gupta, G., 307, 812, 815, 819
Gupta, M., 755, 757
Gupta, N., 333, 336
Gupta, R., 120, 122, 123, 125-27, 129-31, 138-41, 152
Guranowski, A., 504
Gurdon, J., 111
Guroff, G., 261, 282, 283
Guschlbauer, W., 809, 817, 819, 825, 828
Gussin, G., 294
Gussin, G. N., 417
Gutell, R. R., 120-23, 125, 129, 130, 133-36, 139, 152, 157
Gutfreund, H., 61
Güth, K., 66
Gutierrez, R., 677
Gutmann, I., 383, 384
Gutterson, N. I., 453
Guy, A., 344, 348

H

Haarmann, I., 690, 692
Haas, R., 177
Haase, A. T., 673, 688
Haass, D., 630, 644
Habener, J. F., 671, 672, 676
Haber, D. A., 459
Haber, E., 201
Haber, J. E., 169, 181, 188-90
Habermann, E., 602, 613, 614
Habig, W. H., 651
Hackenthal, E., 673, 674
Hackert, M. L., 359, 361, 362, 365
Haddock, B. A., 252
Haddox, M. K., 781
Hadjiolov, A. A., 111, 123, 136
Hadwiger, L., 656
Haegele, K., 780
Hafner, E. W., 374, 377, 752, 753, 755, 762, 770, 775, 781
Hageman, R. V., 232
Hagen, D., 435, 437
Hagenbüchle, O., 405
Hahn, M. G., 653
Hahn, W. E., 677
Haigler, H. T., 275, 282
Haimo, L. T., 174
Hainfeld, J., 201, 203-5
Hakanson, R., 700, 701
Hakoshima, T., 797, 798, 803, 804, 828
Halavent, C., 859
Halegoua, S., 282
Haley, J., 341
Hall, B. D., 337, 839
Hall, C. E., 56, 196, 197, 202, 204, 207, 209
Hall, D. O., 241
Hall, I. H., 803
Hall, J. G., 741
Hallén, A., 853
Hallenbeck, P. C., 232, 252
Halvorson, H. O., 454
Hamada, H., 829, 838, 839, 841
Hamana, K., 778
Hamelin, J., 701
Hamilton, A., 642
Hamilton, W. D., 232, 237
Hamlin, J. L., 261, 449, 464, 469, 471, 477
Hamlin, R. C., 540
Hammerschmidt, R., 648

Hamming, J., 102
Hammond, E., 742, 743
Hammond, G. L., 669, 700
Hammond, K. S., 56
Han, K. K., 738
Hanahan, D., 464
Hanau, L. H., 817, 818
Hancock, J., 146
Haneef, I., 539, 540
Hanfland, P., 626
Haniford, D. B., 805, 822, 824, 825, 828, 837, 838
Hanke, M. T., 373
Hanly, S., 425, 426
Hanna, M. M., 420, 421
Hannonen, P., 376, 377
Hansche, P. E., 454
Hansen, B. S., 107, 108
Hansen, E. B., 80, 95
Hansen, F. G., 80, 95
Hansen, P. A., 377
Hansen, U. M., 414
Hanson, J., 56, 62, 63
Hanson, K. R., 384
Hanson, M., 282
Hanson, W. L., 761
Hantgan, R. R., 206-8
Hanzlik, R., 516
Hao, W. M., 817, 818, 839
Hara, T., 776, 777
Harada, S., 502
Hardeman, E. C., 456, 458
Harden, A., 5
Hardesty, B., 144, 145
Hardies, S. C., 401
Harding, N. E., 178, 182
Hardingham, T. E., 848, 861
Hardwicke, P. M. D., 46
Hardy, P. M., 666, 671
Hardy, R. W. F., 232, 250
Hardy, S. J. S., 76
Hargrave, P. A., 607-10, 616, 617
Harigai, H., 377, 775
Harkins, R. N., 564
Harmann, B., 806, 831
Harnish, B. W., 79, 452
Harper, G. P., 273
Harrell, J. T., 805, 810
HARRINGTON, W. F., 35-73; 40, 41, 47, 48, 51, 52, 54, 58-61, 68
Harris, E. D., 720, 734
Harris, J. I., 666, 670
Harris, M. J., 561
Harris, P. J., 635
Harris, R. J., 155
Harrison, C. A., 393
Harrison, S. C., 605
Harris-Warrick, R. M., 275
Harsh, M., 738, 739
Harshey, R. M., 480
Hart, C. A., 284
Hart, D. A., 642
Hart, G. W., 854
Hart, P. A., 805, 810, 822, 825
Hartley, B. S., 452
Hartley, R. D., 635
Hartley, S., 500
Hartman, A. L., 173
Hartmann, B., 805, 812, 813, 817, 818, 821
Hartmann, G., 24
Harvey, R., 348, 349
Harvey, S. C., 46, 50, 51
Hascall, G. K., 848, 853, 854, 861
Hascall, V. C., 848, 851, 853-55, 857, 861
Haschemeyer, A. E. V., 802, 828
Haschemeyer, R. H., 201, 203-5
Haselgrove, J. C., 62, 65
Haselkorn, R., 252
Hasenbank, R., 89
Hashimoto, S., 282, 775
Haslinger, A., 836
Hassell, J. R., 853, 855, 861
Hatayama, T., 155
Hatcher, P. A., 201, 203
Hatfield, G. W., 457
Haverkamp, J., 626
Haverkate, F., 196, 200
Havir, E. A., 384
Havsmark, B., 863
Hawiger, J., 217, 218
Hawkes, T. R., 246, 247
Hawkins, M., 252, 750
Hawley, D. K., 401-3, 406, 409-11, 414, 417, 418, 431
Hawley, R. S., 455, 480
Hawrot, E., 377, 378
Hayashi, H., 154, 597, 724
Hayashi, S., 757, 761, 764, 765
Hayashi, T., 632, 651
Hayflick, J., 336
Hayman, E. G., 854, 857, 862, 863
Haynes, R. H., 469
Hayshi, T., 633, 650
Hayward, R. S., 428
Hayward, S. B., 600
Hazum, E., 702, 703
He, R., 803
Hearst, J. E., 120, 127, 128, 139, 140, 142, 145, 152, 420-28, 431, 432, 586
Heathcliffe, G. R., 330, 334, 336
Heathcote, J. G., 733
Heby, O., 376, 750, 757, 761, 769
Hecht, M. H., 303, 313
Hedman, K., 857, 862, 865
Heffron, F., 312
Hehir, K., 313
Heidelberg, C., 525
Heimer, Y. M., 758
Heinegård, D. K., 853, 854, 859-62
Heinsohn, S., 683, 688
Heintz, N. H., 449, 469, 471, 477
Held, W., 85
Held, W. A., 149
Heldin, C.-H., 266, 269, 270, 275, 278, 281, 858
Helene, C., 294
Heller, D. N., 528
Heller, E., 666, 671
Heller, J. S., 750, 764, 765
Heller, K., 98
Hellmann, W., 148
Helmkamp, G., 494, 533
Helser, T. L., 151, 152
Henderson, A. S., 461, 464
Henderson, L. E., 266
Henderson, R., 597, 599-601, 607, 620
Henes, C., 154
Heng, H., 742
Henkel, W., 723, 732, 733
Henning, U., 617
Henningsson, S., 757, 764, 772
Henrick, K., 640
Henry, G. D., 45
Henschen, A., 196, 198-200, 222, 223, 390
Henson, E., 383, 723, 728, 732, 737
Henzl, M. T., 232, 234, 235
HERBERT, E., 665-715; 274, 668, 670-72, 676, 678, 680, 687, 690, 691, 696-99, 705
Herbert, T. J., 58
Herbomel, P., 834, 838
Herbst, E. J., 377, 750, 769
Hercules, K., 90
Hereford, L. M., 110
Heritier-Watkins, O., 863
Herliy, W. C., 599
Herlyn, M., 757
Herman, H., 521
Hermann, R. B., 561, 562
Hermans, J., 196, 207, 208
Hernaez, L., 279
Herr, J. C., 771
Herr, W., 139, 146, 150, 153, 835
Herrick, G., 183
Herrmann, N., 461
Hershko, A., 282
Herskowitz, I., 435, 437, 438, 671, 684
Herth, W., 631
Hertz, A., 690, 692, 703
Herzberg, M., 343
Herzenberg, L. A., 459
Hespell, R. B., 124

Hessel, B., 196, 198, 199, 213, 222, 223
Hetherington, D. R., 236, 237, 251
Heumann, J. M., 177
Heumann, R., 285
Heus, H. A., 122
Heyneker, H. L., 333, 334, 336, 337, 341, 351, 417
Hibasami, H., 750, 763
Hicks, J., 165
Hicks, J. B., 169, 190
Hicks, K. L., 436
Higgins, C. F., 453
Higgins, D. L., 200
Higgins, E. S., 248
Highsmith, S., 50
Higo, K., 150
Higuchi, K., 725
Higuchi, T., 561
Hilbers, C. W., 127, 128, 143
Hildebrand, J. H., 561, 563
Hilfiker, M., 266
Hilgenfeldt, U., 673, 674
Hilger, F., 753
Hill, C. H., 741
Hill, C. W., 79, 105, 452, 453
Hill, G. M., 742
Hill, M., 483
Hill, R. J., 807, 808, 831
Hill, S., 251, 252
Hill, T. L., 64
Hill, W. E., 148
Hillen, W., 401, 805, 810
Hillez, Z., 392
Hilliker, E., 222
Hillman, B. S., 452
Hillova, J., 483
Hills, G. J., 53
Himmelfarb, S., 49, 51, 60, 67
Hingerty, B. E., 817, 818, 839
Hinkle, D. C., 393
Hinman, M., 691, 693, 697, 699
Hinnen, A., 165
Hinnie, J., 719
Hinssen, H., 59, 60, 62
Hipskind, R. A., 836
Hirama, M., 735, 736
Hirashima, A., 377, 775
Hirata, Y., 241, 673
Hirose, S., 774, 775
Hirose, T., 333, 334, 337-39, 342, 344, 347, 348, 669-72, 677-79
Hirsch, J. L., 740
Hirsch, M., 587
Hirshfield, M. S., 504
Hiscott, J., 459
Hislop, E. C., 657
Histala, O. A., 765
Hitri, S., 864
Hjalmarsson, K. J., 78-80
Ho, P., 736
Ho, P. K., 854
Ho, Y., 313
Ho, Y.-S., 418
Hobart, P., 669, 671, 677
Hobom, G., 423
Hochschild, A., 313, 418
Hock, R. A., 275
Hodge, P., 325
Hodges, R. S., 50
Hodgins, D. S., 358, 380-84
Hodgkin, D. C., 549
Hodgson, C. P., 284, 287
Hodgson, K. O., 234, 245, 606
Hoehler, H., 630, 644
Hoeijmakers, J. H. J., 120-23, 136, 152
Hoeprich, P. D. Jr., 198, 206
Hofer, M., 453, 471
Hofer, P., 732
Hoffee, P. A., 456
Hoffman, B. M., 235
Hoffman, H. P., 739
Hoffman, S. J., 494
Hoffmann, W., 671, 672, 678
Hofnung, M., 453
Hofschneider, P. H., 344, 679
Hogan, J. J., 136, 138, 139
Hogg, D. H., 196, 198, 213
Hogness, D. S., 337
Hogue-Angeletti, R. A., 273
Hokfelt, T., 702
Hol, W. G. J., 314, 604
Holbrook, J. J., 804, 810, 819
Holbrook, K. A., 740-42
Holder, S. B., 328, 335
Hole, B. J., 236, 251
Holland, D., 330
Holland, I. B., 151
Holland, L. J., 219
Hollands, C., 516
Hollenberg, M., 275
Hollenberg, M. D., 275
Hollingshead, C., 597
Hollister, D. W., 741
Holloman, W. K., 477, 837
Hollt, V., 690, 692, 697, 699, 703
Holm, R. H., 248, 249
Holmes, K. C., 43, 64, 67
Holmes, M. A., 539, 540
Holmes, W. M., 96, 98, 109, 425, 426
Holmquist, G. P., 176, 177, 179, 180, 184
Holst, J. J., 704, 705
Holsten, R. D., 232
Holtgreve, H., 836
Hölttä, E., 376, 377, 754, 760, 763, 765, 768, 777, 779, 781
Holtzer, A., 56
Holtzer, H., 864
Homburger, F., 219
Hong, J. S., 693, 702
Hood, L. E., 266-69, 273, 277, 286, 461, 666, 670, 671, 673, 703
Hood, W., 520
Hook, A. G., 456
HÖÖK, M., 847-69; 848, 853, 855-58, 860, 862-65
Hoover, G. A., 266
Hope, J., 701
Hope, P., 700
Hopkins, C. R., 673
Hopkins, N., 299
Hopkins, R. C., 815
Hopp, H. E., 652
Hopwood, J., 851, 853
Hopwood, J. J., 854
Horaist, M., 422, 426
Horakova, M., 737
Hori, C., 359, 374, 376, 377, 758, 759
Horichi, K., 736
Hormann, H., 862
Horn, G. T., 406, 620
Horne, R. W., 738
Horner, A. A., 855
Horns, R. C. Jr., 448
Hortin, G., 528, 697, 701
Horton, E. W., 666, 671
Hortsch, M., 268
Horwitz, A. H., 312
Hosaka, K., 753
Hosang, M., 103, 273, 275, 277
Hoscoe, M., 495
Hoshina, H., 697, 701
Hotchkiss, L., 16
Houghton, M., 341, 342
Houmard, J., 248
Hourcade, D., 450
Housley, T., 722, 723, 728, 732
Housley, T. J., 734
Hovi, T., 760
Howard, B. H., 429
Howard, E. A., 182, 183, 185-87
Howard, K. S., 699
Howard, M., 266
Howard, R. A., 392
Howard, R. L., 232
Hoyle, G., 56
Hozumi, N., 337
Hozumi, T., 40-42, 336
Hryniewicz, M. M., 775
Hsiang, M. W., 294
Hsiao, C.-L., 166
Hsieh, K.-H., 201, 212
Hsieh, T.-S., 420
Hsu, C.-Y., 413
Huang, C., 234
Huang, J. S., 269, 270, 278, 461
Huang, K.-S., 600

Huang, S. S., 270, 461
Huang, T. C., 232, 327, 331, 335, 336, 340
Hubbard, S. C., 697
Huber, D. J., 635
Huber, J. A., 763
Huber, R., 316, 539, 540
Huberman, E., 457
Huberman, J. A., 479, 483
Hudson, L., 91, 431
Hudson, P., 341, 688
Hughes, E. W., 733
Hughes, J., 666, 670, 703
Hughes, R., 630
Hughes-Schrader, S., 188
Hui, K. Y., 201
Huiatt, T. W., 49, 62
Huisman, M. J., 177
Hukins, D. W. L., 295, 296
Hulmes, D. J. S., 731
Hülsmann, W., 24
Hultmark, D., 613, 615
Humayun, Z., 299, 301
Humbel, R. E., 266-69
Hunkapiller, M. W., 266-70, 273, 277, 286, 461, 666, 670, 671, 673, 703
Hunt, S. W. III, 456
Hunt, T., 776
Hunter, A. R., 776
Hunter, J. S. V., 752
Hunter, T., 28, 278
Hurst, R. E., 865
Hurwitz, C., 771, 774, 782
Hurwitz, J., 420
Huse, Y., 771
Huseby, R. M., 198
Hussa, R. O., 668
Hutchinson, F., 304
Hutner, S. H., 761
Huttner, W., 23
Huxley, A. F., 63-65, 67
Huxley, H. E., 37, 38, 42, 43, 47, 48, 51, 52, 56, 59-61, 63-66
Huxley, J. S., 263
Huynh, B. H., 232, 234, 235
Huynh, Q. K., 358, 359, 361, 362, 367, 368, 370, 371, 383, 759
Huynh-Dinh, T., 805
Huysmans, E., 120
Hvidt, S., 51
Hyde, J. S., 67

I

Iaccarino, M., 251, 252
Igarashi, K., 774-76
Igarashi, M., 666, 670, 703
Igarashi, O., 636
Iitaka, Y., 771
Ike, Y., 325, 327, 328, 340
Ikeda, T., 763
Ikeda, Y., 669, 682
Ikehara, M., 325, 327, 817, 818
Ikemura, T., 104, 105, 151
Iki, K., 632, 633
Ikikura, K. K., 815
Ikuta, S., 319, 325, 327, 328, 331, 338, 340
Imada, A., 502
Imada, K., 631
Imahori, K., 779
Imai, K., 778
Imai, M., 432
Imaoka, N., 780
Imbach, J.-L., 839
IMPERIAL, J., 231-57; 237, 239-47, 251
Imura, H., 691, 701
Inada, Y., 212
Inagami, T., 267, 268, 271, 666, 671, 704
Inayama, S., 669, 671, 678, 679
Inerot, S., 854
Ingelman-Sundberg, M., 523
Ingraham, J. L., 94, 105, 392
Ingram, D. S., 656
Ingram, V. M., 821
Inone, H., 769
Inoue, A., 668, 670, 672, 677
Inoue, T., 725
Inturrisi, C. E., 702
Irani, M. H., 418
Ireland, H., 200
Irwin, N., 313, 418
Isaacs, R. J., 769
Isaksson, L. A., 86, 89
Ishida, T., 724
Ishihama, A., 77, 83, 94, 97, 99, 390, 392, 417
Ishii, S., 640, 642
Ishiwata, S., 65, 66
Ishizu, A., 632
Island, D. P., 673
Isomaa, V. V., 757, 761, 763, 764
Isono, K., 77-80, 95
Israel, D. W., 232
ITAKURA, K., 323-56; 34, 319, 325, 327, 328, 331, 333-40, 342, 344, 347, 350, 352, 404, 412, 677, 801, 803, 804
Itano, H. A., 352
Ito, H., 325, 327, 328, 340, 346-48
Ito, J., 178, 182, 391
Ito, K., 78
Ito, S., 632, 633
Itoh, H., 328
Itoh, N., 671-73, 676
Itoh, S., 93, 98
Ivanov, V. I., 771, 809
Ivatt, R. J., 697
Iwai, K., 367, 383
Iwai, S., 334, 336
Iwanaga, S., 196, 199
Iwasaki, T., 638, 640
Iwashita, T., 735
Iwata, K., 275
Izquierdo, M., 110

J

Jack, A., 296
Jack, W. E., 400
Jackson, J. F., 669, 671, 672, 685, 687
Jackson, J. M., 98, 109
Jackson, R. C., 696
Jackson, R. J., 675, 776
Jackson, S., 699
Jackson, W. T., 174
Jacky, P. B., 480
Jacob, S. T., 776, 777
Jacobs, D. B., 234
Jacobs, J. W., 266, 273, 669, 671, 676, 677
Jacobs, S., 261, 266, 275, 277, 279
Jacobsen, J. H., 420
Jacobson, A., 126
Jacobsson, I., 853
Jacoby, G. A., 500
Jacq, B., 120, 121
Jaenicke, R., 567, 568
Jaffe, E. A., 739
Jahromi, S. S., 56
Jakes, K., 152, 586
Jakes, R., 36, 45
Jakoby, W., 495
Jakovcic, S., 54
Jakus, M. A., 56
James, M. N. G., 539, 540, 542, 543
JAMES, R., 259-92; 268
Jamney, P. A., 209
Janecek, F., 642
Janin, J., 538, 541-45, 550-53, 555-68, 607-9, 611
Janmey, P. A., 209, 214
Jänne, J., 375-77, 384, 750, 760-65, 767-69, 777, 781
Jänne, O. A., 755, 757, 761, 763, 764
Janse, C., 649
Janssen, J. W. G., 120-23, 136, 152
Jap, B. K., 600
Jardetzky, O., 50
Jarlenski, D. M. L., 236, 237, 251
Jaskunas, S. R., 76-78, 96, 98, 107
Jaurin, B., 436
Jaworski, E. G., 757
Jay, E., 332
Jayaraman, S., 813
Jaye, M., 337
Jefferson, L. S., 761

Jeffrey, A., 294, 299-304, 306, 314-16, 319
Jelenc, P. C., 775
Jelinek, W. R., 466, 480
Jelinic, V., 862
Jelinski, L. W., 497
Jencks, W., 498
Jeng, I. M., 285
Jenke, H.-S., 456, 458
Jenkins, H. E., 252
Jenkins, J. P., 598
Jensen, C. G., 174
Jensen, K. F., 436
Jentoft, N., 383
Jermyn, M. A., 648
Jiang, K. S., 642
Jimenez, S. A., 739
Jimenez de Asua, L., 261
Jinks, C. S., 80, 81, 86, 87, 93
Jinks-Robertson, S., 77, 81, 86, 87, 89, 93, 95, 96, 103-5, 108, 111
Job, C., 837
Job, D., 837
Joder-Ohlenbusch, A. M., 767, 768, 776, 777
Joe, F., 209, 214
Johansson, I., 523
Johansson, J., 610
Johansson, R., 863
JOHANSSON, S., 847-69; 858, 862
John, H. M., 19
John, R., 736
Johnsen, M., 81, 84, 85, 95
Johnson, A. D., 155, 294, 296, 299, 301, 303
Johnson, B., 266
Johnson, E. M., 182, 183
Johnson, H. M., 233, 244, 252
Johnson, J. L., 265
Johnson, K. D., 121, 134, 154
Johnson, L. F., 110, 457, 739
Johnson, L. K., 691
Johnson, M. J., 18, 338, 339, 342, 345, 347, 348
Johnson, P. A., 261
Johnson, P. F., 345
Johnson, R. B., 216
Johnsson, A., 266, 267, 269, 270, 275, 286, 461
Johnston, D. E., 401, 409, 413, 414, 417
Johnston, J. O., 520
Johnston, M., 502, 509
Johnston, P. D., 127, 128
Johnston, R. N., 458, 459, 467, 468, 475
Jolivet, J., 448
Jonas, V., 669, 671, 677, 683, 684, 693-95
Jonen, H., 518
Jones, B. N., 702, 703
Jones, C. W., 451
Jones, D. S., 666, 671
Jones, E. C., 635
Jones, E. D., 604
Jones, J., 180, 832
Jones, J. B., 234
Jones, J. D. G., 180, 181, 185
Jones, K. W., 168
Jones, M. E., 22
Jones, O. W., 413
Jones, P. A., 739
Jones, P. M., 740
Jones, R. L., 334, 634, 652
Jones, T. M., 651
Jordan, B. R., 120, 127, 128
Jorgenson, K. F., 805, 808, 822, 824, 830
Jornvall, H., 359, 371, 384
Jorpes, J. E., 696
Jorruale, H., 700
Jorstad, C. M., 426, 752, 776
Joseleau, J.-P., 634, 637, 638, 642, 651
Joseph-Bravo, P., 676
Josephs, R., 59-61
Jounneau, J., 834, 838
Jourdan, R., 120
Jovin, T. M., 177, 186, 413, 419, 420, 422, 423, 794, 803-11, 816-19, 825, 828, 831, 837, 840
Julius, D. J., 684
Julkunen, I., 857
Jung, M., 505
Jung, M. J., 760
Jungermann, K., 239
Jurale, J., 651

K

Kabsch, W., 43, 564
Kadesch, T., 394, 401, 410
Kadesch, T. R., 396, 398, 401, 408, 409, 417
Kafatos, F. C., 337, 451
Kagan, H., 512
Kagan, H. M., 719, 736, 738, 743
Kageyama, R., 669, 671, 678, 679
Kahan, L., 120
Kahn, C. R., 278-80, 285
Kahn, D., 252
Kahn, J. R., 666, 671
Kaibuchi, K., 281, 287
Kaine, B. P., 183
Kaiser, D., 771
Kaiser, E. T., 613, 616
Kaitila, I., 741
Kajitani, M., 97, 99, 417
Kakegawa, T., 774
Kakidani, H., 670-72, 679
Kakimoto, Y., 780
Kakunaga, T., 829, 838, 839, 841
Kalk, K. H., 604, 605
Kallio, A., 506, 762
Kalman, T., 525
Kalt, M. R., 449
Kamalakannan, V., 40, 45
Kamata, T., 62
Kamei, M., 779
Kameji, T., 757, 761, 764, 765
Kamen, M. D., 250
Kaminer, B., 59, 60, 62
Kamsolova, S., 413
Kamykowski, G. W., 209, 214, 216
Kan, L.-S., 134, 150
Kan, Y. W., 353
Kanalis, J. J., 456
Kanatani, M., 863
Kanazawa, Y., 701
Kanda, N., 460, 462, 464, 471
Kandel, E. R., 687
Kaneko, T., 780
Kanellis, P., 616
Kanety, H., 268
Kanfer, J., 377, 378
Kangawa, K., 666, 670, 703
Kano, K., 359, 374, 376, 377, 758, 759
Kant, J. A., 219, 220, 222, 223
Kantharaj, G. R., 581
Kanwar, Y. S., 855
Kao, T. H., 157
Kaplan, I., 204
Kaplan, K. L., 213, 216
Kaplan, N. O., 19, 20
Kaptein, R., 313
Käpyho, K., 761-63
Karacsonyi, S., 642
Karam, J. D., 90
Kari, C., 98-100, 102
Karim, A. M., 775
Karin, M., 454, 471, 836
Karn, J., 40, 46, 48, 49
Karnovsky, M. J., 864
Karpatkin, S., 198
Karplus, M., 542-44, 562, 815
Karpova, G. G., 152
Karr, T., 49, 67
Karran, P., 529
Karrer, K. M., 450
Kartner, N., 457
Käs, E., 475
Kashima, N., 267, 271
Kashiwagi, K., 774-75
Kaspar, S., 266
Kassab, R., 40-44, 67
Kassavetis, G. A., 422, 425, 426, 431, 434
Kastelein, R. A., 91, 588
Kastner, B., 143-45
Kasuga, M., 275, 278
Katayama, E., 39, 45

Katchalski, E., 649
Katinka, M., 834, 838
Kato, K., 632, 640, 642, 647, 652
Kato, R., 648
Kato, S., 852
Kato, Y., 632, 633, 635, 651
Katona, L., 647
Katre, N. V., 600
Katsnelson, A. A., 359, 371
Katsura, I., 59-61
Katsuyuki, Y., 120, 122, 123, 152
Katz, F. M., 675
Katzen, A. L., 177, 183, 189
Katzenellenbogen, J., 498
Kaufman, P., 651
Kaufman, R. J., 456, 459, 461, 464-67, 470
Kauzmann, W., 544, 560
Kavathas, P., 459
Kavenoff, R., 177
Kavka, K. S., 328, 335
Kawakami, H., 864
Kawakami, K., 636
Kawanishi, Y., 722, 724
Kawashima, E. H., 338-40, 342, 347
Kawashima, S., 779
Kay, C. M., 56
Kaye, A., 750, 760, 769, 776, 782
Kayser, G., 620
Kazarinoff, M. N., 756
Kazazian, H. H., 353
Kaziro, Y., 26, 91, 99
Kearns, D. R., 817, 819, 839
Kearsey, S. E., 151, 155, 586
Keck, P. C., 804, 809
Kee, S. G., 337
Keegstra, K., 626, 632, 637, 644, 650-52, 657
Keele, E. M., 732
Keeler, R. F., 239, 242, 248-50
Keen, N. T., 651
Kefalides, N. A., 733
Kehl, M., 200
Keim, P., 696
Keith, C., 604
Keith, D. A., 719, 737
Kellems, R., 456
Kellems, R. E., 456
Keller, E. B., 435
Keller, J., 506
Keller, J. M., 864, 865
Keller, K. L., 865
Keller, R., 853
Keller, S., 739
Kelley, K. L., 864
Kellogg, P. D., 779, 780
Kemal, C., 499
Kemp, D. J., 687
Kempe, T., 328
Kempe, T. D., 456, 458, 468
Kemper, B., 696
Kempf, C., 604
Kendrew, J. C., 538, 560, 565, 568, 610
Kendrick-Jones, J., 36, 45, 56, 57, 60, 62
Kenerley, M. E., 96
Kennedy, C., 244, 245, 251
Kennedy, D. W., 216
Kennedy, E. P., 359, 377, 378, 383, 384
Kennedy, P. J., 120-23, 131
Kennedy, S. J., 606
Kenner, G. W., 666, 671
Kensler, R. W., 52, 55, 65
Kenzora, J. E., 740
Keon, J. P. R., 657
Keppel, F., 438
Kern, D., 776
Kernaghan, A. K., 57
Keski-Oja, J., 862, 865
Kessler, C. M., 219
Kessler, D. P., 105
Kester, W. R., 540, 541
Ketchum, P. A., 233, 235, 236, 241, 246
Kettler, R., 283
Keutmann, H. T., 666, 671
Kezdy, F. J., 613, 616
Khan, S. R., 102
Kharitonenkov, I. G., 371
Khesin, R., 413
Khorana, H. G., 329, 333, 336, 599, 600, 677
Khoury, G., 834
Kidd, V. J., 353
Kidwell, M. G., 485
Kiefer, B. I., 111
Kielley, W. W., 40, 41
Kiely, M. L., 459
Kierzek, R., 328, 335, 336
Kikkawa, U., 281, 287
Kikuchi, A., 98
Kilo, C., 743
Kilpatrick, D. C., 648
Kilpatrick, D. L., 341, 666, 670, 673, 674, 678, 699, 702, 703
Kilpatrick, M. W., 805, 822, 825
Kim, C. H., 110
Kim, J.-J. P., 776, 794
Kim, K. H., 779
Kim, S.-H., 313, 316
Kimata, K., 852, 854, 857
Kimball, A. P., 392
Kimberly, M. M., 782
Kime, M. J., 127, 128, 143, 147, 149
Kimhi, Y., 769
Kimura, A., 100
Kimura, J. H., 851, 854, 861
Kimura, S., 702, 703, 720
Kindel, P. K., 642
Kinet, J.-M., 658
King, A. C., 275
King, B. O., 189
King, G. I., 600
King, G. L., 280
King, L. Jr., 277
King, L. E. Jr., 277
King, T. C., 127, 128, 141, 142
Kingston, R. E., 100, 390, 422, 423, 425-27, 436
Kinlough-Rathbone, R. L., 217
Kinoshita, T., 152
Kinsella, A. R., 468
Kinsella, L., 413
Kirschbaum, J. B., 78
Kiselev, A. V., 599, 614
Kishida, K., 774
Kiss, A., 96, 97, 99
Kiss, G. B., 451
Kiss, I., 97
Kistler, J., 598, 601
Kita, T., 668, 670, 672, 677, 691
Kitamura, N., 669, 671, 678
Kitani, T., 757
Kitano, K., 334, 336
Kitao, K., 634
Kivirikko, K. I., 741
Kiyono, P., 754, 768, 781
Kjeldgaard, N. O., 76, 105
KJELLÉN, L., 847-69; 852, 855-58, 862
Klaassen, A. W., 110
Klagsbrun, M., 266
Klapper, I. Z., 557, 558
Klapper, M. H., 544, 557, 558, 561, 562, 564
Klar, A. J. S., 169, 190
Klausner, R. D., 604
Kleckner, N., 453, 480
Kleid, D., 294, 299, 301
Klein, B. K., 127, 128, 141, 142
Klein, G., 461
Klein, H. L., 454
Klein, R. D., 406
Kleinkauf, H., 29, 30
Kleinman, H. K., 734, 861
Kleinwachter, V., 809
Klemm, P., 431
Klempnauer, K.-H., 460, 462
Kletzien, R. F., 261
Klevan, L., 826
Klevickis, S., 244, 248, 249, 251
Kline, T. B., 531
Klinman, J. P., 375, 521, 759, 779, 780
Klobutcher, L. A., 183, 189
Kloczewiak, M., 217, 218
Klootwijk, J., 123, 136

Klotz, I. M., 561
Klotz, L. C., 177
Klug, A., 54, 587
Klymkowsky, M. W., 601
Klysik, J., 805, 810, 810, 817, 818, 820, 822, 825, 827, 828, 839
Kmiec, E. B., 477, 837
Knödgen, B., 776-78, 780
Knop, R. H., 819
Knorre, D. G., 152
Knosp, O., 241
Knowles, J. R., 420, 495, 499, 500
Knox, R. B., 648
Knutson, J. C., 760
Ko, A., 514
Kobayashi, M., 120, 122, 123, 152, 581, 584
Kobets, N. D., 152
Kobi, S., 98
Koch, A. L., 92, 108, 109
Koch, M. H. J., 64-66
Köchel, H.-G., 120, 122, 123, 152
Koch-Weser, J., 505
Kodama, H., 632
Kodicek, E., 721
Koehler, H., 631
Koeppe, R. E., 606
Koepsell, H. J., 18
Koerner, T. A. W., 626
Koessler, K. K., 373
Kogan, M., 275
Kohl, N. E., 460, 462
Kohler, R., 5
Kohles, V., 85
Kohli, V., 327, 337
Kohn, L. D., 740, 741
Koike, K., 120, 122, 123, 152, 581, 584
Kojima, J., 863
Kojima, K., 702, 703
Kojouharova, M. S., 144
Kolb, A., 308, 418
Kolb, M., 760
Koller, T., 804, 805, 808, 809, 811, 822, 824-26, 829, 830, 841
Kollman, P., 815
Kolpak, F. J., 630, 794, 795, 799-804, 811, 812, 816, 819, 820
Kolpak, M., 512, 513, 517
Kolset, S. O., 852
Komaromy, M., 611, 616, 617, 619
Komenko, A. K., 199
Komoriya, A., 266, 268
Konecki, D. S., 456, 459
Kongo, A., 774
Koningsberger, V. V., 24
Konisky, J., 151
Konno, H., 640
Konrad, E. B., 78
Kontula, K. K., 755, 757, 764
Koob, T. J., 724, 726, 727, 734, 735, 742
Koontz, S., 525
Kop, J., 120, 122, 123, 125, 127, 129, 130, 133-35, 140, 141, 157
Kopka, M. L., 803, 808
Koppenbrink, J. W., 757
Kopylov, A. M., 120, 122, 127, 128, 130, 139-41
Korn, E. D., 63
Korn, L. J., 111
Korobko, V. G., 336
Kosaka, K., 701
Koshland, D. E. Jr., 453
Kössel, H., 120, 122, 123, 125, 129, 152, 332, 423, 586
Kossiva, D., 735
Kostel, P. J., 249, 251
Koster, H., 327, 328
Kosterlitz, H. W., 666, 670
Koteliansky, V. E., 148
Kotter, R., 435
Kovacik, V., 642
Kowalczykowski, S. C., 89, 90, 400, 420, 434
Kowalska-Loth, B., 199
Koyama, T., 632
Kozlowski, S., 319
Kozlowski, S. A., 805, 806, 812, 816-18, 821
Kraemer, P. M., 858
Krafft, G., 498
Krag, S. S., 457
Kraicer, J., 698
Krakow, J. S., 306, 413, 419, 420, 422, 423
Krakow, W., 207, 209
Kramarov, V. M., 155
Kramer, C., 617
Kramer, G., 144, 145
Kramer, P. M., 863
Kramer, W., 349
Krane, S. M., 740
Krantes, P., 836
Krantz, A., 509
Kranzler, L. S., 676
Krasnow, M. A., 771
Kraszewski, A., 337
Kraus, P., 457
Kraut, J., 316, 540
Krayev, A. S., 121, 122, 152
Kreil, G., 272, 379, 671, 672, 678, 696
Kresheck, G. C., 561
Kress, M., 64-66
Kresse, H., 859
Kretovich, V. L., 233, 235, 236
Kretsinger, R. H., 539
Kretzschmar, K. M., 38, 50
Kreuger, J. H., 93, 98
Krider, H., 111
Krieger, D. T., 672, 697, 699
Kriel, G., 613
Krieter, P., 522
Krisch, H. M., 89, 90
Kritzyn, A. M., 771
Krol, A., 85, 125, 129, 147, 148, 155, 586
Kroon, A. M., 120, 586, 587
Kropinski, A. M. B., 770
Krovatin, W., 301, 313, 316
Krueger, M., 521
Kruger, K., 150
Krupp, M. N., 275
Krystal, M., 829
Ku, P. K., 742
Kubackova, M., 642
Kubo, S., 40
Kuboki, Y., 722, 723, 732
Kucan, Z., 773
Kucera, J., 56
Kucera, P., 701
Kuchino, Y., 91
Kudlow, J. E., 278
Kudo, T., 418
Kudryk, B., 196, 198, 209, 220-22
Kudryk, B. J., 209
Kuechler, E., 152, 155
Kuehl, F., 523
Kuehn, G. D., 756, 766, 772, 777
Kuenzle, C. C., 808, 832
Kuhara, S., 123
Kühlbrandt, W., 153
Kühn, K., 730
Kuhn, L. J., 281, 287
Kuhnlein, U., 805, 824
Kuivaniemi, H., 741
Kukita, T., 123
Kukreja, K., 275
Kull, F. C. Jr., 266, 279
Kumar, A., 252, 336
Kumar, H. D., 252
Kumar, S. A., 420
Kumon, A., 780
Kundrat, E., 58
Kundu, N., 525
Kung, H. F., 438
Kuno, M., 502
Kuntz, I. D., 540, 546, 557, 558
Küntzel, H., 120, 122, 123, 152
Kunz, B. A., 469
Kunze, K., 514, 516, 517
Küpper, H., 431
Kurahashi, K., 30
Kuriyama, R., 174
Kurjan, J., 671, 684
Kurland, C. G., 100
Kurogochi, Y., 781
Kurosaki, T., 689

Kuwayama, H., 40
Kuzan, F., 736, 738
Kuznicki, J., 63
Kwan, S.-W., 219
Kwok, S., 268
Kwon, Y. H., 318, 808, 827, 831
Kyogoku, Y., 782
Kypr, J., 809, 825, 828
Kyriakidis, D. A., 750, 758, 764, 765
Kyte, J., 562, 565, 607-9, 616-18

L

LaBerge, D. E., 636
LaCorbiere, M., 865
Labavitch, J. M., 627, 628, 632, 633, 642
Labbe, J.-P., 40, 42
Labrecque, A. D., 696
Labrie, F., 699
Ladner, R., 302-4, 306, 314, 315, 319
Lafer, E. M., 803, 806-9, 815, 816, 818, 822, 823, 825, 829, 831, 833
Lahm, H. W., 666, 670, 703
Lai, C.-J., 151, 155, 343
Laidlaw, J., 861
Laiken, S. L., 401
Laine, R. A., 222
Lake, G. B., 679
Lake, J. A., 61, 143-45
Laki, K., 207
Lakshmanan, J., 283
Lalancette, R. A., 601
Lam, L. H., 853
Lambotte, P., 620
Lamkin, M., 41
Lamond, A. I., 98, 99, 102, 425
Lampidis, R., 736
Lamport, D. T. A., 156, 644-50
Lamvik, M. K., 52
Lamy, F., 738
Lanave, C., 120, 584, 586
Lancelot, G., 294
Land, H., 461, 670, 672, 683, 703
Landon, J., 696, 698, 699
Landreth, G. E., 275
Landry, E. F., 90
Landy, A., 91, 332, 431
Lane, C. F., 383
Lane, D. A., 200
Lane, R. S., 363, 364
Lang, G., 232, 235
Lang, M. C., 808, 826, 829
Lang, N., 418
Lange, P., 454
Langer-Safer, P. R., 688
Langley, K. E., 378
Langridge, R., 204, 316, 809
Langry, K., 515
Lankinen, H., 457
Lanter, J., 120, 122, 152
Lapiere, C. M., 740
Lapinskas, B., 504
Lapointe, J., 776
Lardy, H., 14
Large, J., 517
Lark, M. W., 857
Larm, O., 642
Larson, G. P., 346-48
Larson, J. E., 810, 817, 818, 822, 825, 827, 828, 839
Larsson, I., 700, 701
Larsson, L.-I., 704
Lasarcyk, H., 208
Laskey, R. A., 675
Latt, S., 460, 462, 464, 471
Latt, S. A., 460-62, 464, 465, 470
Lau, L. F., 422, 423, 425, 431, 438
Lauber, M., 673
Laudano, A. P., 129, 200, 210-12, 217, 218, 223
Lauer, G., 294, 299
Laurent, T., 208
Laurent, T. C., 848, 859
Laurie, G. W., 862
Lauterwein, J., 603
Lauwers, N., 758
Lavery, R., 815, 838
Lavi, S., 466, 469
Law, J. D., 269, 270
Lawler, H. C., 666, 670
Lawn, R. M., 679
Lawrence, D., 740
Lax, I., 278, 279, 283, 285
Layman, D. L., 736, 739
Lazzarini, R. A., 102
Leach, C. T., 738
Leach, J. E., 647, 648
Leach, M., 90
Leach, R. M. Jr., 720, 734
Leachman, R. D., 741
Leblond, C. P., 862
LeCam, A., 282
LeComte, J. R., 231, 232
Ledbetter, D. H., 459
Leder, I. G., 852
Leder, P., 675
Lee, B., 546, 561-63, 565
Lee, C. Y., 546
Lee, F., 423, 464, 466
Lee, G., 391, 418
Lee, J. S., 80, 91
Lee, K. S., 396, 397, 407, 408
Lee, K.-Y., 233, 235, 236, 246
Lee, L. S., 280, 281
Lee, S., 29, 31
Lee, S.-C., 655
Lee, T. H., 699
Lee, Y. C., 222
Lefevre, M., 742
Lefteriou, B., 735
LeGall, J., 241
Legg, J. L., 41
Lehman, W., 45
Leibowitz, M. J., 684
Leick, V., 450
Leifer, D., 599-601
Leifer, Z., 755
Leipold, B., 676
Leivo, I., 862
Lemaire, G., 89, 90
Lemaux, P. G., 84
Lemeunier, F., 808, 831, 832
Lemieux, L., 461
Lemke, G. E., 266
Lemmon, S. K., 266
Lenaers, A., 740
Leng, B., 808, 831
Leng, M., 805, 806, 808, 809, 812, 813, 817, 818, 821, 826, 829, 831, 832, 839
Lengyel, P., 753
Lennarz, W. J., 377, 854
Lennon, V. A., 266
Lent, R., 723
Lent, R. W., 736
Lentz, K., 666, 671
Leonard, K. R., 52, 55, 599, 601
LePape, A., 743
Lepine, J., 690
Lerch, K., 28
Lerman, M. I., 829
Lerner, A. B., 666, 670, 699
Lesk, A. M., 540, 549, 564
Leslie, A. G. W., 803, 804, 828
Leslie, J. G., 738, 739
Leslie, R., 174, 175
Lester, E. P., 781
Lester, R. L., 236
Letsinger, R. L., 327
Leung, D., 341
Leung, D. W., 351, 839
Levan, A., 474
Levan, G., 474
Levchenko, L. A., 235
Levene, C. I., 719
Levene, P. A., 13
Levens, D., 579, 580, 588
Levi-Montalcini, R., 283
Levin, N., 758
Levine, E. N., 864
Levine, M. D., 126, 688
Levine, R. J. C., 45, 55, 56, 65
Levinson, A. D., 464
Levinson, B. B., 456
Levitt, M., 296, 540, 542-44, 546, 547, 549, 550, 552, 553, 556-59, 564, 567
Levy, B. A., 219

Levy, M. A., 234, 506
Lewi, L., 741
Lewis, G. P., 666, 671
Lewis, H., 80, 82, 88
Lewis, J. A., 456, 458, 470
Lewis, J. B., 127, 128, 775
Lewis, M., 294, 300-4, 306, 307, 310-15, 319
Lewis, M. K., 391
Lewis, P. N., 540
Lewis, R. V., 702, 703
Lewis, W. H., 457
Li, C. H., 666, 669, 670, 699, 700
Li, J., 100, 425, 437, 438, 597
Li, J.-G., 233-35, 247
Li, M., 120, 122, 151, 152, 154
Li, Y., 167
Li, Y.-T., 222
Lian, J. B., 727
Liang, C. M., 676
Liang, L. Y., 358
Liao, W. S. L., 466, 471-73, 482, 485
Libaw, E., 733
Libby, P. R., 778
Libermann, T. A., 278, 279
Lichtenstein, J. R., 740, 741
Lichy, J. H., 178
Lie, R. F., 250
Lieberson, R., 53, 54
Liebke, H. H., 98, 109, 392
Lifson, S., 556
Light, D. R., 514, 523
Light, N. D., 719, 721, 724, 732, 734
Lijnen, H. R., 215
Likos, J., 507, 508
Liljas, A., 77, 120, 568
Lin, C. C., 460, 462, 676
Lin, H. L., 697, 699
Lin, H.-P. P., 175
Lincke, C. R., 177, 186, 187, 189
Lindahl, L., 76-78, 83, 87, 95, 96, 98, 99
Lindahl, P. A., 232
Lindahl, U., 848, 852, 853, 855, 860, 862
Lindberg, B., 627
Lindl, P. A., 769
Lindsay, W. L., 237
Lindsey, G. G., 200
Ling, N., 274, 666, 668, 669, 671, 700-2
Ling, V., 457
Lingappa, V. R., 669, 675, 696
Lingens, F., 524
Liotta, A. S., 672, 697, 699
Lipman, D., 332
LIPMANN, F., 1-33; 13-17, 19-31
Lippard, S. J., 817, 818
Lippert, B., 506
Lipps, H. J., 808, 831
Lipscomb, W. N., 540, 558
Liquori, A. M., 544, 546
Lis, H., 649
Liscum, L., 459
Lissitzky, J.-C., 691, 693, 699
Lister, A., 461
Liston, D. R., 669, 703
Litt, M., 127
Littau, V. C., 182
Littauer, U. Z., 769
Little, J. G., 469
Little, J. W., 80
Little, R., 102
Littlechild, J., 81
Liu, C. Y., 216
Liu, J., 67
Liu, P.-S., 181
Liu, S.-M., 249
Liu, W. C., 325, 326, 328
Livingston, E., 470
Livingston, J. N., 275
Ljones, T., 232, 237
Ljungdahl, L. G., 249
Lobanov, N. A., 599, 614
Locatell, K. L., 284
Lockfield, A. J., 702
Lockwood, D. H., 750
Lodish, H. F., 675
Loeber, J. G., 699
Loftfield, R. B., 776
Lohman, T. M., 303, 396, 397, 400, 407
Lohmander, L. S., 854
Lohmann, K., 13
Lomberti, A., 233, 235, 236, 246
Lomedico, P. T., 340, 669, 671, 678, 703
Lonberg, N., 89, 90, 420, 434
Long, E. O., 449, 450
Lönngren, J., 627
Loosemore, M., 514, 523
Lorand, L., 206, 216
Lord, R. C., 804, 805, 810
Lord, S. T., 222, 223
Lorimer, G., 530
Losick, R., 390, 391, 418, 427
Losty, T. A., 742
Lottspeich, F., 196, 198, 222, 223
Loughlin, R. E., 248
Lovell, S. J., 40, 67
Lövgren, T. N. E., 776
Low, D. A., 265
Low, K. B., 251
Lowe, C., 512
Lowe, D. J., 232
Lowery, C., 429
Lowery-Goldhammer, C., 429
Lowey, S., 40, 41, 47, 49, 56, 60, 62
Löwkvist, B., 761
Lowney, L. I., 666, 670
Lowry, C. V., 150
Lowry, P. J., 696, 698-701
Lowry, R. B., 740
Lowther, D. A., 851
Lowy, J., 56, 57, 62, 64, 65
Lu, P., 313
Lu, R. C., 48, 67
Lubini, D., 495
Lucas, M. A., 215
Lucas-Lenard, J., 26
Lück, A., 127
Luehrsen, K. R., 157
Luhrmann, R., 143-45
Luk, G. D., 761, 769
Luke, B. M., 56
Lumry, R., 546
Lumsden, J., 392
Lund, E., 97, 352
Lund, P. K., 669, 671, 672, 676, 677
Lundberg, J. M., 702
Lundberg, L. G., 436
Lundsgaard, E., 16
Lundy, A., 431
Luo, Z. X., 110
Lupski, J. R., 78-80
Luria, S. E., 467
Luskey, K. L., 456, 458, 459
Lusky, M., 423
Luther, H., 284
Luther, P. K., 52
Luzzatti, L., 741
L'vov, N. P., 233, 235, 236
L'vov, Y. M., 359, 371
Ly, B., 199
Lynch, D., 576
Lynch, J. E., 499
Lynen, F., 20
Lyon, G. D., 653, 654

M

Maaløe, O., 76, 94, 101, 105, 392, 436
Maas, W. K., 752
Mabbs, F. E., 249
MacDonald, D. W., 246
MacDonald, R. E., 105
MacDonald, R. J., 459
MacDonald, T. L., 516
MacDonnell, P. C., 283
Mace, H. A. F., 98, 99, 102, 425
Mace, M. Jr., 222
Macek, K., 737
MacFarlane, J. D., 741
MacGillivray, R. T. A., 220, 222
MacGregor, C. H., 246, 252
MacGregor, H. C., 450
MacGregor, R. R., 668

Mach, M., 770
Machatt, M. A., 85, 125, 129, 148, 586
Machiyama, N., 152
Machunga, P., 523
Macing, T., 266, 273, 673
Macino, G., 575
MacKay, R. M., 120, 129, 135
Mackie, G. A., 80, 87, 95, 130
Maclachlan, G. A., 631, 633, 650
Maclean, D. J., 656
Macleod, P. M., 740
MacNeil, D., 233, 244, 248, 252
MacNeil, T., 233, 244, 248, 252
Macy, M. R., 429, 430, 432
Madansky, C. H., 233, 235
Madaras, J. A., 741
Maddern, R. H., 455
Maddux, B. A., 279
Maden, B. E. H., 121-23, 136, 152
Madia, A. M., 743
Maeda, N., 857
Maekawa, E., 634
Maestre, M. F., 600
Magazin, M., 669, 671, 677
Mager, W. H., 110
Maggiora, L., 525
Magliozzo, C. C., 809
Magnusson, S., 216
Magrum, L. J., 125-27, 129-31, 138, 139
Magun, B. E., 280, 281
Mahdavi, V., 48
Mahendrasingam, A., 803
Maher, D. L., 95
Mahowald, A. P., 451
Maigret, B., 542-44
Maine, G. T., 167, 169
Mains, R. E., 274, 668, 673, 674, 696-99, 701, 702
Maio, J. J., 168
Maitra, U., 420
Maizels, N., 422
Majiwa, P. A. O., 177
Majors, J., 306, 308
Majumdar, A., 341
Makabe, O., 341
Makk, G., 697
Mako, M. E., 701
Makus, D. J., 656
Malan, T. P., 401, 406, 409, 410, 417, 418
Malcolm, A. D. B., 392
Malcolm, D. S., 690
Maley, F., 90
Malfoy, B., 805, 806, 808, 813, 817, 818, 826, 829, 831, 832, 839
Maling, B., 427
Malmström, A., 851, 854, 855, 857, 863
Maltman, K. L., 770
Maly, P., 120, 156
Mamont, P., 282
Mamont, P. S., 457, 755, 757, 760, 762, 765, 767, 768, 776, 777
Manavalan, P., 562
Mandel, G., 312
Mangel, W. F., 413
Mangold, B., 514
Maniatis, T., 294, 299, 301, 337, 675, 676, 679
Mankin, A. S., 127, 128, 139
Mankin, D. P., 854
Mankin, H. J., 854
Mann, C., 166, 167, 169, 170
Mann, T., 19
Manners, D. J., 636
Mannherz, H. G., 36, 43
Manning, G. S., 397, 771
Manning, J. M., 364, 505, 507
Manor, H., 469
Mansuy, D., 517, 518
Mäntyjärvi, R., 770
Manyakov, V., 413
Manzini, G., 804
Manzocchi, A., 372
Marakushev, S. A., 235
Maran, J. W., 690
Marchesi, V., 616
Marck, C., 809, 817, 819, 825, 828
Marco, J., 673
Marcotte, P., 520
Mardashev, S. R., 359, 370, 371, 384
Marder, V. J., 196, 197, 199, 202, 205, 209, 214
Margossian, S. S., 51
Marguerie, G., 200, 218
Mariage-Samson, R., 483
Mariottini, P., 575
Mariuzza, R., 763
Mariz, I., 266
Markelonis, G. J., 265
Markese, J., 704, 705
Markham, A. F., 330, 336, 340, 348, 349, 353
Markham, G. D., 359, 374, 383, 384, 752, 755, 758, 759, 762
Markham, R., 53
Marklund, S.-E., 860
Markovic, R., 779, 780
Marks, P. A., 769
Markwalder, H.-U., 635
Marky, N. L., 815
Marquardt, H., 266-68, 273, 277, 286
Marquart, M., 540
Marsh, D. J., 41
Marsh, J., 666
Marshall, R. D., 697
Marston, S. B., 52, 64
Martens, G., 705
Martens, P. A., 578
Martin, D. W. Jr., 456
Martin, F. M., 341, 427
Martin, G. R., 719, 733, 736, 740, 741, 855, 862
Martin, J. C., 817-19, 822
Martin, N. C., 120, 122, 151, 152, 154, 584
Martin, S. R., 819, 826
Martin, W. H., 377
Martinelli, R. A., 200
Marton, L. J., 750, 760, 767, 769
Marumoto, Y., 336, 350, 404, 412
Maruyama, K., 52, 720
Marx, K. A., 771
Marx, M., 483
Marx-Figini, M., 631
Mashni, E., 437, 438
Mason, P., 64, 67
Mason, R. M., 743
Massague, J., 269, 275, 277, 280
Massey, D. E., 697, 699
Masu, M., 689
Masuda, Y., 633
Mathews, J., 515
Mathis, J. M., 528
Matrisian, L. M., 280, 281
Matsubara, I., 52, 65
Matsuda, A., 525
Matsuda, K., 632, 633, 635, 651
Matsueda, G. R., 201
Matsufuji, K., 765
Matsui, H., 267, 271
Matsui, I., 776-79
Matsuo, H., 666, 670, 696, 703
Matsuoka, Y., 780
Matsushima, A., 212
Matsuura, K., 778
Matsuura, Y., 539, 540
Matsuzaki, S., 778
Matteucci, M. D., 326-29, 331, 351
Matthaei, H., 155
Matthes, H. W. D., 326, 327, 330
Matthew, J. B., 307
Matthews, B. W., 294-98, 303, 304, 310-16, 319, 404, 405, 431, 539-41, 604
Matthews, D. A., 540
Matthews, E. A., 154
Matthews, J. B., 297
Matthias, F. R., 209

Matzura, H., 77, 82, 94, 107, 108
Maudsley, D. V., 750
Maurer, R., 294, 299
Mavis, R. D., 377
Maw, M. C., 54
Maxam, A. W., 271, 331, 344
Maxwell, I. H., 677
May, J. N., 864
May, S., 521
Maycock, A., 494, 496, 505
Mayeri, E., 669, 671, 672, 685, 687
Mayers, D. F., 605
Mayo, K. E., 458
Mazabraud, A., 836
Mazarguil, H., 702
Mazau, D., 648
Mazur, S. J., 397, 771
Mazza, G., 650
McAllister, L. B., 669, 671, 672, 685, 687
McCammon, J. A., 546
McCann, P. P., 506, 750, 761-63, 765, 767
McCarthy, B. J., 312
McCarty, K. S. Sr., 456
McClintock, B., 169, 176, 187-89, 465
McClure, W. R., 401-3, 406, 409-14, 417, 418, 431
McConlogue, L., 755, 757, 762, 767
McConlogue, L. C., 769
McCormick, P. P., 750
McCully, C., 90
McDonagh, J., 196, 202, 207, 208, 216
McDonagh, R. P., 216
McDonald, J. K., 268
McDonald, J. W., 248
McDougall, K. J., 754
McEwan, R. N., 464, 472
McGahan, R., 616
McGhee, J. D., 393, 395, 404, 406, 407, 689
McGill, S. M., 762
McGillvray, B., 740
McGoodwin, E. B., 741
McGregor, W. H., 384
McGuire, J. C., 283
McIntosh, J. R., 174
McIntosh, L. P., 805-8, 811, 817-19, 825, 828, 831, 837, 840
McKay, D. B., 294, 306, 307, 310-12
McKee, P. A., 201, 202, 215
McKelvy, J. F., 676
McKenna, C., 233, 235, 236
McKenna, C. E., 234, 249-51
McKenna, M. C., 234
McKenney, K., 88
McKenzie, H. A., 606
McKeown, C. K., 457
McKusick, V. A., 740, 741
McLachlan, A. D., 40, 46, 48, 49, 568, 600, 607
Mclean, C. J., 700
McLimont, M., 425, 426
McMahon, J., 336, 350, 404, 412
McMahon, J. E., 126
McMahon, M. E., 773
McMurray, C. H., 742
MCNFIL, M., 625-63; 626, 627, 630-32, 634, 637-42, 651, 653, 654, 656
McNeill, P. A., 56
McPherson, J., 855
MCSWIGGEN, J. A., 389-446; 294
Meacock, P. A., 334, 336
Meador, W. E., 359, 361, 362, 365
Meares, C. F., 420, 421
Mecham, R. P., 734, 738, 739, 742
Mechanic, G. L., 720, 722, 723, 729, 732, 737
Medved, L. V., 201
Megerman, J., 60, 62
Mehlér, A. H., 776
Mehta, M. H., 743
Mehtor, S., 500
Meier, H., 642
Meinkoth, J., 461, 464
Meinwald, Y. C., 200
Meirovitch, H., 562
Meister, A., 379
Melançon, P., 396, 397, 407, 408, 771
Melera, P. W., 456, 458, 460, 462, 470, 472
Mellstrom, K., 266, 270, 275
Melnikova, A. F., 420
Melton, D. W., 456, 459
Menache, D., 200
Mendelsohn, S., 90
Mendelson, R., 38
Mendelson, R. A., 41, 65, 67
Mercanti, D., 666, 671
Mergerman, J., 62
Merkel, C., 574, 576-78, 580, 582, 587
Merles, M., 525
Mernan, J. P., 202
Merrick, M., 248
Merrick, W. C., 675
Merrifield, R. B., 325
Mertz, J. E., 343
Meselson, M., 349
Meselson, M. S., 476, 477
Messing, J., 344, 345, 679
Metcalf, B. W., 505, 506, 520, 760, 762
Metcalf, D., 266
Metcalfe, D. D., 855
Metzler, D., 507, 508
Meuth, M., 457
Mevarech, M., 340, 341, 677, 678
Meyer, B. J., 294, 296, 299-301
Meyer, C. M., 232
Meyer, K., 863
Meyer, Y., 631
Meyerhof, O., 9
Meyerink, J. H., 111
Meyers, C. A., 266, 268
Meyers, M. B., 448, 449, 457, 469
Meyskens, F. L. Jr., 767
Meyuhas, O., 110
Meza-Basso, L., 84
Miatra, U., 432
Michaelis, S., 696
Michel, H., 597-600
Michels, P. A. M., 177, 186, 187, 189
Michelson, A. M., 152
Middlebrook, W. R., 206
Miesfeld, R., 829
Migalina, L. A., 371
Miglietta, J. J., 817, 818, 825, 828, 839
Mihalyi, E., 205
Mihich, E., 377
Mikhailov, G. M., 235
Milbrandt, J. D., 449, 464, 469, 471, 477
Milch, J. R., 65
Mildvan, A., 512
Miller, A. G., 459, 731
Miller, A. M., 266
Miller, B., 528
Miller, D. H., 156, 649
Miller, D. L., 584
Miller, D. M. III, 54, 266
Miller, E. J., 732, 733, 736
Miller, E. R., 742
Miller, F. D., 805, 808, 821, 822, 824, 827, 830, 838
Miller, G. K., 111
Miller, J. A., 392
Miller, J. B., 244, 246, 249
Miller, J. H., 313, 390, 427, 453, 471, 472, 480
Miller, J. R., 455
Miller, K., 111
Miller, K. W., 561
Miller, O. J., 469, 470
Miller, O. L. Jr., 452
Miller, P. S., 134, 150
Miller, R. C. Jr., 336
Miller, R. M., 249
Miller, W. L., 668
Millette, R. L., 413
Millican, T. A., 326, 327
Millikan, R. G., 66

Millis, M. B., 741
Millman, B. M., 52, 53, 55, 56, 64
Mills, D., 198
Minamino, N., 703
Minamoto, K., 336
Mincey, T., 512
Minchenkova, L. E., 771
Minick, C. R., 739
Minkley, E. G. Jr., 429
Minth, C. D., 669, 671, 677
Minyat, E. E., 771, 809
Miozzari, G., 341
Miozzari, G. F., 423
Mirau, P. A., 817, 819, 839
Mirzabekov, A. D., 420
Misaki, A., 632, 633
Mishina, M., 680, 682, 689
Miskimen, J., 754
Misono, H., 366
Mitchell, G. K., 756, 766, 767
Mitchell, J. L. A., 756, 766, 767
Mitchell, T. W., 723
Mitchell, W. M., 673
Mitra, C. K., 805, 812
Mitsui, Y., 771, 809
Miura, A., 77, 78, 81, 87, 93, 95, 98
Miura, K.-I., 154
Miyada, C. G., 312
Miyajima, A., 91, 99
Miyakawa, T., 275
Miyake, A., 775
Miyake, T., 336, 338-40, 342, 347
Miyaki, K., 771
Miyamoto, S., 334, 336
Miyanishi, T., 41
Miyata, A., 696, 703
Miyoshi, K., 327
Mizono, A., 336
Mizote, H., 780
Mizrahi, Y., 758
Mizuguchi, Y., 151
Mizuno, A., 726
Mizuno, K., 696, 703
Mizushima, S., 150
Mizushima-Sugano, J., 99
Mochalova, L. V., 144
Mock, G. A., 326, 327
Mocz, G., 40
Modrich, P., 400
Moellering, R. C., 500
Moelling, K., 671
Moens, P. B., 176
Moews, P. C., 539
Mogami, K., 48
Mohan, J., 111
Molko, D., 344, 348
Mollard, A., 631
Möller, A., 318, 805-8, 816-18, 827, 831, 839
Möller, W., 156
Molloy, J. A., 651
Momany, F. A., 540
Monahan, J. J., 340, 669, 671, 678, 703
Mondovi, B., 780
Monier, R., 127, 128, 146
Monro, J. A., 630
Monro, R., 25
Montague, M. J., 757
Montal, M., 620
Montell, C., 588
Montgomery, D. L., 337, 839
Montgomery, J. A., 504
Montgomery, K. T., 460, 462, 472
Montminy, M. R., 671, 672
Montoya, J., 574, 577-82, 585, 587-89, 591
Montreuil, J., 626
Moore, P. B., 37, 38, 42, 127, 128, 143, 144, 147, 149
Moore, V. E., 336
Moore, W. M., 359, 372, 384, 759
Moorman, A., 496, 498
Moos, C., 59, 60
Mora, P. T., 863-65
Morales, M. F., 41, 50, 64, 66
Moran, C. P. Jr., 418
Moran, J. S., 261
Morch, M. D., 377, 775
Morgan, A. R., 808, 822, 824, 830
Morgan, B. A., 666, 670
Morgan, C. J., 275
Morgan, E. A., 76-78, 96-99, 107, 109, 151
Morgan, R. S., 564
MORGAN, W. D., 389-446; 294, 422-24, 431, 432, 446
Morgenegg, G., 808, 832
Mori, M., 98, 632, 647, 652
Mori, T., 738
Moriguchi, T., 724, 726
Morimoto, K., 52
Morimoto, Y., 669-72, 679, 682
Morin, C., 342, 347, 352
Morin, O., 699
Morisawa, S., 155, 779
Morita, M., 642
Mornet, D., 40-44, 67
Moroi, Y., 173
Morris, D. R., 359, 374, 376, 377, 426, 750, 752, 753, 755, 758, 760, 762, 767, 769, 776
Morris, E. R., 627, 638, 862
Morris, H. R., 626, 666, 670
Morris, S., 727
Morrison, I. M., 635
Morrison, J. F., 495, 530
Morrison, P. R., 207
Morrissett, H., 89, 90
Mort, A. J., 639, 644, 647
Mortenson, L. E., 232, 234, 238-40, 243, 245, 249, 251
Mortimer, R. K., 165, 753
Morton, L. F., 721
Moruzzi, G., 772, 777
Moscaritolo, R., 739
Moses, H. L., 284, 287
Mosesson, M. W., 196, 198, 201, 203-5, 216, 219, 220
Mosher, D. F., 216, 734
Moss, B., 179
Moss, D., 539, 540
Motegi, K., 726
Motola, N. C., 763
Moule, M. L., 275
Mount, D. W., 80
Moura, J. J. G., 241
Mowery, P. C., 600
Moyer, J. D., 763
Mudd, M. S., 201, 212
Mudryj, M., 437
Mueckl, D., 83, 87
Mueller, G. P., 690
Mueller, K., 98
Mueller, P., 521, 600, 603
Muetter, S. N., 864
Muh, J. P., 743
Mühlrad, A., 40, 41
Muir, H., 848, 861
Muir, L., 28
Muirhead, H., 539, 542
Mukai, T., 80, 87
Mulamba, P. L., 761
Mulder, G. H., 690
Muldoon, E. P., 648
Mullenbach, G. T., 671, 672, 678, 683
Muller, F., 181
Muller, H. J., 169, 176, 187
Müller, M., 208
Müller, R., 130, 147, 148, 524
Muller, W., 380
Muller-Hill, B., 344, 679
Mulligan, M. E., 401, 409, 410, 417
Multani, J. S., 232
Münck, E., 232, 234, 235
Munro, J. L., 90
Munro, P. M. G., 52
Munroe, J., 522
Munson, L. M., 414, 416
Murad, S., 740, 741
Murakami, Y., 757, 765
Muramatsu, H., 506
Murano, G., 220
Muray, R. H. A., 644, 649
Murphy, D., 459
Murphy, L., 738
Murphy, N., 576
Murphy, R. F., 338, 342, 347, 678

Murphy, W. A., 742
Murphy, W. I., 576-78
Murray, A. W., 165, 166, 191, 280, 281
Murray, M., 198
Murti, K. G., 189
Musakhanov, M. M., 121, 122, 152
Mustard, J. F., 217
Muto, A., 98, 100, 130
Mutoh, S., 854, 855, 864
Mutt, V., 666, 671, 696

N

Nachman, R., 739
Nachmansohn, D., 19
Nadal-Ginard, B., 48
Nagahisa, A., 518, 531
Nagai, J., 763
Nagaiah, K., 283
Nagainis, C. R., 470
Nagamatsu, Y., 775, 776
Nagano, K., 782
Nagano, N., 557-59
Nagatani, H. H., 233, 235, 236, 250-52
Nagel, K., 776
Nagley, P., 576, 577, 582
Nagy, J. A., 201, 203
Najarian, R., 351
Nakai, S., 183
Nakai, Y., 701
Nakajima, T., 234, 780
Nakamoto, K., 722
Nakamura, H., 358
Nakamura, K., 776
Nakamura, M., 668, 670, 672, 691
Nakamura, N., 724, 863
Nakamuro, N., 865
Nakane, P. K., 173
Nakanishi, S., 668, 670, 672, 677, 680, 691, 692
Nakanishi, Y., 852
Nakao, K., 669, 682, 701
Nakashima, T., 781
Nakayama, K., 457
Nakazawa, A., 431
Nakazawa, K., 853
Nandi, P., 561
Nansel, D. D., 693
Napoli, C., 89
Narang, S. A., 325, 335, 431
Narayanan, A. S., 736, 738, 739, 741
Nash, H. A., 770
Nashimoto, H., 78
Nason, A., 233, 235, 236, 246, 249
Nassereddin, I. K., 760
Nathan, H. C., 761
Nathans, D., 25, 343, 345
Nathenson, S. G., 338
Nawa, H., 669, 671, 678
Naylor, G. R. S., 66
Nazar, R. N., 120, 121, 129, 135
Neel, J. V., 352
Neer, A., 469
Neff, N., 401, 422
Neff, N. F., 428
Negata, K., 178
Neher, R., 666, 671
Neidhardt, F. C., 84, 94, 392
Neidle, S., 838
Neil, J. C., 278
Nelb, G. W., 209, 214
Nelson, H. C. M., 303, 313
Nelson, M. J., 232, 234, 235
Nemethy, G., 540-42
Nene, V., 100
Nery, N., 239
Nestler, F. H. M., 51
Netters, K. M., 703
Neuberger, A., 647
Neuhard, J., 770
Neuhaus, H., 181
Neukom, H., 635, 649
Neumann, J.-M., 805
Neville, D. M. Jr., 279, 280, 285
Nevins, D. J., 635, 636
Nevins, J. R., 439, 687
Newbold, J. E., 589
Newbold, R. F., 461
Newlon, C. S., 177
Newmark, P., 668
Newport, J. W., 89, 90, 420, 434
Newsome, D. A., 853
Newton, C. R., 330, 336
Newton, W. E., 233-35, 241, 248
Nexo, E., 275
Nguyen, T. D., 455
Niall, H. D., 261, 263, 266, 268, 269, 273, 277, 283, 341, 666, 671, 688
Nicholas, H. B., 794
Nicholls, A. C., 723, 724, 734, 740
Nichols, J. S., 512, 513, 517
Nichols, S. R., 817, 818, 839
Nicholson, W. E., 673, 690
Nickerson, J. M., 221
Nicklen, S., 344, 679
Nickol, J. M., 821
Nicoletti, M., 364, 372
Niedel, J. E., 281, 287
Niedergerke, R., 63
Niederman, R., 58, 62, 63
Nielands, J. B., 241
Niemann, A., 394, 398, 417
Nierhaus, K. H., 85, 120, 149-51
Nierlich, D. P., 76, 77, 99, 100, 105, 120, 122, 123, 136, 152, 576, 577, 582, 584, 586, 587
Nierman, W. C., 100, 401, 417, 422, 425, 431
Nieuwenhuizen, W., 196, 200, 215
Nieva-Gomez, D., 244
Nihei, K., 599
Nikolaev, A. Y., 370
Nikolaev, N., 123, 136
Nilsson, B., 853, 854
Nilsson, I. M., 208
Nilsson, J. R., 450
Nimmo, H. G., 282
Nimni, M. E., 719, 721, 723, 732, 733
Ninio, J., 126
Nishi, A., 631
Nishida, Y., 183
Nishiguchi, J., 581
Nishikawa, K., 124, 129, 135, 541
Nishimura, J., 278
Nishimura, S., 98
Nishioka, K., 769
Nishitani, K., 633
Nissley, S. P., 275
Niveleau, A., 813
Niyogi, S. K., 336
Noat, G., 649, 650
Noble, N. L., 723, 742
Nobrega, F. G., 575
Noda, H., 59-61
Noda, M., 669-72, 678-80, 692
Noe, B. D., 673, 701
Nolan, P., 525
NOLLER, H. F., 119-62, 97, 98, 120-25, 129-31, 135, 136, 138, 144, 147, 156
Nomiyama, H., 123
NOMURA, M., 75-117, 76-83, 85-88, 93, 95, 96, 98, 107, 120, 148-51, 436
Nomura, S., 469
NORDHEIM, A., 791-846, 318, 803, 805-8, 812, 813, 815-18, 821-23, 825, 829, 831, 833
Norling, B., 854-58
Normark, S., 436, 453, 471, 472
Noro, A., 854, 857
Norris, F., 348, 349, 669, 671, 672, 678
Norris, K., 348, 349, 669, 671, 672, 678
Norris, T. E., 92, 108, 109
Northcote, D. H., 640, 644, 649
Northrup, S. H., 546
Norton, P. A., 201, 203, 204
Nossal, N. G., 420

Nossel, H. L., 213, 216
Notake, M., 680, 682, 689, 692
Nöthig-Laslo, V., 773
Nothnagel, E. A., 637, 638, 653, 654
Novelli, G. D., 19, 20
Novellie, L., 634
Noyes, B. E., 340-42, 677, 678
Noyes, C., 723, 732
Nozaki, Y., 563, 607, 608
Numa, S., 677, 691
Nunberg, J. H., 466
Nunez, J., 384
Nusgens, B. V., 740
Nussenzweig, V., 196, 199
Nussinov, R., 126
Nussli, M., 767
Nyitray, L., 48

O

O'Brien, T. G., 757
O'Brien, W. E., 457
O'Connell, P., 110
O'Connor, T., 822
O'Dell, B. L., 742
O'Dell, M., 180
O'Farrell, P. H., 100, 101
O'Farrell, P. Z., 89, 90
O'Hare, K. M., 428
O'Konski, C. T., 50
O'Neil, J. A., 669, 671, 677
O'Neill, M. A., 632, 644, 645, 647-49
Oakes, B. W., 739
Oates, E., 676, 696, 705
Oatley, S. J., 316
Obata, K., 671, 672
Obata, K. I., 673, 676
Obata, Y., 338
Oberaumer, I., 863
Öbrink, B., 861
Oda, T., 429
Odermatt, E., 734, 862
Odoardi, M., 650
Odom, O. W., 144, 145
Oegma, T. R., 861
Oesterhelt, D., 597, 599
Ofengand, J., 153, 154
Offer, G., 38, 47, 49, 54, 59, 60, 62, 65
Ogawa, T., 724
Ogilvie, A., 770
Ogren, S., 855
Oguchi, H., 724-26, 732, 734
Oh, T. H., 265
Ohgi, K., 144
Ohkubo, H., 669, 671, 678, 679
Ohkubo, Y., 864
Ohlendorf, D. H., 294-98, 303, 304, 310-16, 319, 404, 405, 431, 605
Ohmori, K., 863
Ohshima, T., 336
Ohst, E., 853
Ohsuye, K., 336
Ohtsubo, E., 312
Ohtsubo, H., 312
Ohtsuka, E., 325, 327, 334, 336
Oike, Y., 854, 857
Oishi, M., 96, 469
Ojala, D., 574, 576-82, 587-89
Oka, T., 336, 359, 374, 376, 377, 758, 759, 768, 775, 776
Oka, Y., 183
Okada, M., 222, 779
Okamoto, H., 671-73, 676
Okayama, H., 677
Okayama, M., 851
Oki, S., 701
Okonogi, K., 502
Okuba, S., 183
Okuyama, A., 152
Oldberg, Å., 854-58, 862
Oleinik, O. E., 377, 758, 767
Olexa, S. A., 209, 210, 218
Olins, P. O., 80, 85, 148
Oliva, A., 760
Olivecrona, T., 860
Oliver, C., 524
Oliver, N. A., 575
Oliver, P., 739
Oliver, R. M., 359, 361, 362, 365
Olmsted, J. B., 173
Olsen, G. J., 120-22
Olsnes, S., 775
Olson, E. R., 425, 437, 438
Olson, H. M., 144
Olson, J. M., 604
Olson, S., 448
Olson, W. K., 815
Olsson, M. O., 80, 86, 87, 89
Omori, K., 155
Onasch, F., 771, 782
Onasch, O. F., 782
Ong, E. S., 669, 683, 684, 693
Onishi, H., 60, 62
Ono, T., 336, 724
Onyezili, N. I., 719
Oohira, A., 855
Oosta, G. M., 860
Oostra, B. A., 98, 348, 349
Oppenheim, A. B., 98
Oppenheim, D. S., 88
Oppenheimer, C. L., 275, 280
Oppenheimer, E. T., 863
Oreste, P., 852
Orford, C. R., 861
Orias, E., 450, 451
Oriol-Audit, C., 61
Orkin, R. W., 859
Orkin, S. H., 353
Orlowski, M., 510
Orme, L. S., 286
Orme-Johnson, W. H., 232, 234, 235, 237, 518, 531
Orosz, L., 418
Oroszlan, S., 266
Orr, G., 760
Orr-Weaver, T. L., 167, 188, 476, 477, 479
Orth, D. N., 673, 690, 692
Ortiz, I., 54
Ortiz de Montellano, P. R., 513-17
Osawa, S., 100
Osborn, M. J., 377
Osheim, Y. N., 452
Oshima, T., 781
Osman, O. H., 699
Osumi, A., 234
Ota, Y., 98
Otani, S., 779
Otsu, K., 852
Otsuka, T., 123
Otsuki, Y., 657
Otto, U., 862
Ovchinnikov, Y. A., 155, 599, 614
Overell, R. W., 461
Owen, A. J., 261
Owen, T. C., 364
Owen, W. G., 853
Owens, M. S., 241
Owerbach, D., 680
Ozaki, M., 150
Ozeki, H., 105

P

Pace, B., 134, 154
Pace, N. R., 121, 134, 154, 157
Pacella, B. L. Jr., 201
Pacifici, M., 864
Packham, M. A., 217
PABO, C. O., 293-321; 294, 299-307, 310-12, 314-16, 319, 390, 392, 393, 405, 416, 418
Padgett, R. A., 456, 458, 464, 466, 469, 470, 472
Padgette, S., 521
Padmanabhan, R., 336, 779
Page, I., 208
Page, R. C., 736, 738
Page, W. J., 236, 237, 241, 251
Pajula, R.-L., 760, 763
Pajunen, A. E. I., 757, 761, 763, 764
Palacios, R., 451
Palecek, E., 809
Palfrey, C., 769
Pall, M. L., 461
Palm, G., 328
Palm, P., 401, 408
Palmer, G. R., 208, 232
Palmer, J., 504

Palmer, M. L., 120-23, 131
Palmieri, S., 650
Palmiter, R. D., 456, 458
Palotie, A., 741
Pan, S.-S., 233, 235, 236, 246
Pan, W.-C., 450, 451
Pan, W.-H., 233-35
Panagiotidis, C. A., 758
Pankaskie, M., 763
Pantel, P., 40-44, 67
Panzeri, L., 166, 169, 170
Paquelin, A., 244
Parada, L. F., 461
Pardee, A. B., 261, 284
Pardoll, D. M., 479
Pardue, M. L., 168, 176, 180, 181, 807, 808, 816, 818, 831, 839
Pargac, M. B., 769
Parikh, V., 520
Park, C. S., 400
Park, H., 522
Park, M. H., 776, 780, 781
Parker, C. S., 439
Parker, J., 742
Parker, R. C., 345, 679
Parker, R. III, 771, 782
Parks, R. E., 530
Parlato, G., 776
Parli, C. J., 522
Parmeggiani, A., 776
Paro, R., 480, 483
Parry, D. A. D., 47
Parshley, M. S., 739
Parsons, G. D., 80, 87, 95
Parsons, T. F., 668
Part, M.-L., 761
Partridge, S. M., 723, 724, 734, 736
Pascal, M.-C., 252
Pascal, R. A., 509
Paschinger, H., 250
Pastan, I., 280
Patchornik, A., 384
Patel, D. J., 319, 805, 806, 811, 812, 816-18, 821
Patel, T. P., 326, 327
Patel, Y., 673
Pateman, J. A., 754
Paterniti, J. R., 860
Paterson, B. M., 675
Paterson, S., 696, 703
Patil, S. R., 457
Patouchniak, J., 252
Patrick, J., 282
Patterson, D., 464
Patthy, L., 215
Patzelt, C., 673, 674, 696, 704
Paul, L. S., 89, 90, 420, 434
Paulin, L., 762, 763, 765
Pauling, L., 352, 539, 540, 560
Paulsson, M., 854
Paulus, T. J., 754, 768, 781
Pauw, P. G., 457
Paxton, J., 523
PAZ, M. A., 717-48; 383, 719, 736, 737, 739
Peach, C. M., 720
Peacock, W. J., 455
Pearce, G., 656
Pearlman, R. E., 450, 451
Pearse, A. G. E., 666
Pearson, M. L., 464
Pearson, N. J., 110
Pease, L. G., 540
Pease, L. R., 338
Peattie, D. A., 127, 128, 147, 148
Peck, L. J., 803, 805, 807, 808, 813, 815, 822, 823, 825, 829, 833, 837
Pecora, R., 50
Pedersen, S., 80, 81, 84, 87, 95, 431
Pederson, R. C., 701
Peebles, C. L., 773
Pegg, A. E., 359, 373, 374, 376, 377, 750, 755-64, 767-69, 776-79
Pegg, G. F., 651
Peguy, A., 630
Pelczar, M. J., 377
Pelham, H. R. B., 675
Pelimont, J., 196, 199
Pellegrini, M., 110
Peltonen, L., 741
Penel, C., 650
Pengra, R. M., 236, 240
Penman, S., 587
Pennica, D., 351
Penning, T. M., 528
Penny, D., 630
Penschow, J., 688
Pensky, A. C., 693
Penttinen, R., 740
Pepe, F. A., 52-54, 58, 60, 62
Pepe, G., 120, 740
Pepper, D., 173
Pepper, D. S., 860
Pereira, D., 341
Perejda, A. J., 741-43
Peres, J. R. R., 239
Pereyra, B., 736, 737
Periasmy, M., 48
Pero, J., 391, 418
Perry, D. W., 217
Perry, E. F., 741
Perry, J. W., 768, 769
Perry, R. P., 110
Persson, L., 757, 764, 772
Pertoft, H., 859, 859
Perucho, M., 464
Perutz, M. F., 538, 540, 560, 565, 610
Pessin, J. E., 280
Pession, A., 168, 176, 180, 181
Pestka, S., 26, 27
Peterkofsky, B., 739
Peters, L. K., 58
Peters, M. A., 121
Petersen, T. E., 216
Peterson, D., 858
Peterson, J. B., 174
Peterson, K. E., 742
Petersson, A., 776
Petes, T. D., 177, 185, 186, 454, 829, 840
Petrino, M. G., 829, 838, 839, 841
Petrusz, P., 693
Pettersson, I., 855, 856
Pettican, P., 266, 280
Peyman, P., 516
Pfeifer, G. P., 821
Phelps, C., 649, 650
Philippon, A. M., 500
Philippsen, P., 166, 169, 170
Phillips, G. N. Jr., 204
Phillips, I. D. J., 627, 628
Phillips, L. S., 261
Phillips, M., 676, 696, 697
Phillips, M. A., 697
Phillips, R., 521
Phirwa, S., 531
Pickett-Heaps, J. D., 174, 175
Pictet, R., 669, 671, 677
Pieler, T., 146
Pienkos, P. T., 235, 236, 239, 242, 243, 246, 248, 249, 251
Piepersberg, W., 105
Piepkorn, M. W., 864
Pierandrei-Amaldi, P., 110
Pierce, J. G., 668
Piersbacher, M. D., 863
Piez, K. A., 736
Pigram, W. J., 803
Pihl, A., 775
Pilch, P. F., 275, 277
Pilet, J., 805, 806, 813, 831
Pilnik, W., 640
Pincus, M., 604
Pindyck, J., 219
Pinkham, J., 429
Pinnell, S. R., 719, 740, 741
Pinset-Härström, I., 54, 60
Pipas, J. M., 126
Piratsu, M., 353
Piron, M. A., 268, 269
Pirrotta, V., 299
Pispa, H., 376, 377
Pispa, J., 765
Pitot, H. C., 780
Pitts, J., 539, 540
Pjura, P. E., 803, 808
Plant, P. W., 219
Planta, R. J., 110, 111, 123, 136
Platt, T., 109, 422-35

Platt, W., 111
Pledger, W. J., 284
Plimmer, R. H. A., 12
Plow, E. F., 218
Pluta, A. F., 183
Pochon, F., 773
Podolsky, R. J., 66
Pohjanpelto, P., 266, 280, 754, 768
Pohl, F. M., 794, 803-6, 808-11, 816-19, 822, 824-26, 828-30, 841
Policastro, P., 676, 696, 699
Politz, S. M., 144
Politzer, L. R., 497
Pollard, T. D., 43, 62, 63
Pongs, O., 98, 99, 154
Ponnuswamy, P. K., 542, 562
Ponsell, K., 757
Pont-Lezica, R., 652
Pontoni, G., 760
Poole, A. R., 854
Pope, B., 45, 47, 49
Pope, D. G., 644, 647, 649
Pope, F. M., 740
Pope, M. T., 237, 238, 241, 245, 249
Popenoe, E. A., 666, 670
Popkin, P. S., 752
Popov, S. G., 327
Popp, R., 770
Portanova, R., 668, 673
Porter, C. W., 377
Porter, D., 495, 530
Porter, D. J. T., 506, 510
Porter, J. C., 693
Porter, M. E., 62
Posakony, J., 581
Poschupkina, O. S., 235
Pösö, H., 359, 374-76, 384, 750, 755-65, 767, 768, 777-79
Post, L. E., 80-82, 85, 88, 95, 96, 148, 436
Postgate, J. R., 232, 244, 245, 251
Poteete, A. R., 294, 299
Potekhin, S. A., 49
Potter, J. D., 52
Pottle, M., 541
Potts, J. T. J., 566, 578
Poulsen, T. S., 63, 65
Poulsen, P., 496
Pouyet, ..., 829, 1[illegible], 586, 805, 812, 821
Pouyssegur, J., 282
Powell, C. T., 669, 671, 672, 678
Powell, D. A., 627, 638
Powers, G. J., 334
Powers, V. E., 460, 471
Prabhakaran, M., 562
Prakash, N. J., 761
Prasad, K. S. N., 336
Pratt, R. M., 280
Precious, B., 819, 826
Preer, J. R., 189
Preer, L. B., 189
Prem, P., 850
Prescott, D. M., 177, 183, 189
Pressey, R., 651
Prestegard, J. H., 626
Preston, R. D., 630, 631
Prestwich, G. D., 531
Prevelige, P. E. Jr., 821
Pribnow, D., 88, 151, 426, 427
Price, T. M., 201, 203-5
Price, V. L., 102
Prince, H. P., 45
Prince, J. B., 153
Pringle, J. W. S., 56
Printz, M. P., 540
Prinz, R., 859
Pritchard, M. L., 761, 776-79
Privalov, P. L., 42, 49, 201
Prockop, D. J., 739-41
Proffitt, R. T., 269
Proudfoot, N. J., 588
Prough, R., 518
Prozorovskii, V. N., 359, 370, 371, 384
Prudente, D., 169, 190
Pruss, R. M., 275
Ptak, M., 805, 812, 813, 821
Ptashne, M., 294, 296, 299-304, 306, 313-15, 319, 418
Ptitsyn, O. B., 542, 557, 558, 564
Pueyo, M. T., 452
Puig, J., 246
Puigjaner, L. C., 803
Pulford, S. M., 134, 150
Pulleyblank, D. E., 805, 822, 824, 825, 828, 837, 838
Pulliam, D. L., 45
Pullman, A., 314, 815, 838
Pullman, B., 314, 815, 838
Puronen, E. O., 605
Purrello, F., 286
Purves, L. R., 200
Putnam, S., 66

Q

Qian, R., 733
Quadrifoglio, F., 804
Que, B. G., 220, 222
Quigley, G. J., 773, 794, 795, 799-804, 811, 812, 815, 816, 819, 820
Quinn, P. S., 666
Quintarelli, G., 739
Quiroga, M., 267, 271-74, 669, 671, 688
Quiviger, B., 244

R

Raacke, I. D., 666, 670
Rabin, D., 127, 128
Rabinowitz, M., 27, 54, 579, 580, 588
Rabson, A. S., 769
Rabussay, D., 391, 419
Racker, E., 287
Rackovsky, S., 562
Rackwitz, H. R., 413
Radcliffe, R., 215
Radding, C. M., 476, 477
Radhakrishnan, R., 600
Radman, M., 349
Raese, J. D., 697
Raetz, C. R. H., 378
Rahire, M., 122, 152
Rahn, G. M., 126, 135
Raimandi, L., 719
Raina, A., 750, 760, 762-64, 767-70, 777
Raines, E. W., 269, 278
Raines, R., 502, 509
Rajagopalan, K. V., 246
Rajashekhar, B., 521
RajBhandary, U. L., 127, 130, 341
Rakoczi, I., 215
Ramachandran, G. N., 539-42
Ramakrishna, S., 758
Ramirez, F., 740
Rammler, D., 24
Ramstein, J., 805, 806, 809, 813, 831
Ranade, A., 804, 805, 810, 817, 826
Randal, G. A., 334
Rando, R., 494, 496, 507, 533
Rana, M. H., 723, 724, 734
Rao, J. K. M., 607-10, 616, 617
Rao, L. G., 457
Rao, P. N., 769
Rao, S. T., 557, 558
Rapraeger, A. C., 855-57
Rashkovetskii, L. G., 371
Rassoulzadegan, M., 461
Rastl, E., 577
Ratcliffe, J. G., 696, 698, 699
Rathbone, E. B., 634
Ratliff, R. L., 803, 804, 828
Ratnoff, O. D., 199
Rattner, J. B., 808, 821, 822, 824, 827, 830, 838
Raushel, F. M., 528
Rauterberg, J., 723
Ravensbergen, C. J. C., 127, 128, 138
Ravichandran, V., 540
Rawlings, J., 232, 234, 235
Rawls, W. E., 690
Ray, P. M., 632, 633

Rayle, D. L., 628
Razin, A., 344, 347, 348
Razin, E., 852
Rebbert, M. L., 455
Recesi, P. A., 358, 365
Rechler, M. M., 275, 280
Record, M. T., 303
Record, M. T. Jr., 393, 396, 397, 402, 406-8, 410, 417, 77;
RECSEI, P. A., 357-87; 358-66, 369-73, 383, 384, 759
Reddy, P., 269, 270
Reddy, P. R., 761
Redfield, A. G., 127, 128, 773
Redman, C. M., 220-22
Reed, R. E., 584
Reed, R. R., 312
Reed, T., 508
Reeder, R. H., 450
Reedy, M. K., 52, 55, 64
Reeh, S., 84
Rees, D. A., 627, 638, 642, 857, 862
Rees, H., 693
Rees, L. H., 696, 698, 699
Reese, C. B., 325, 327, 329
Reffel, A. C., 284
Regoeczi, E., 217
Rehbein, M., 670, 672
Rehfeld, J. F., 673, 699, 703, 704
Reich, N., 514
Reichard, P., 457
Reichert, E., 20
Reichhart, D., 515
Reimarsson, P., 771
Reiner, A., 854
Reinsberg, J., 382
Reisbig, R. R., 420, 422-24, 426, 428, 431, 432
Reisfeld, R. A., 857
Reisler, E., 41, 61, 63, 67, 68
Rekosh, D. M. K., 178, 182
Remaut, E., 588
Remington, S. J., 313, 539, 540
Rennard, S. I., 855
Rennert, O. M., 776, 777, 779-81
Renswoude, J. V., 604
Renzetti, A. D., 742, 743
Resing, K., 758, 767
Resnick, R. J., 719
Ressler, C., 666, 670
Resvick, R. J., 506
Retsma, J. A., 499
Reuben, R. C., 769
Reusser, F., 80, 95, 436
Reuterby, J., 209
Reverdatto, S. V., 327
Revet, B., 813
Revzin, A., 396, 398
Reyes, A. A., 338, 342, 347, 352
Reynolds, J. A., 561
Reynolds, T. C., 771
Reznikoff, W. S., 390, 414, 416, 427
Rheingold, D., 510
Rhodes, D., 127, 128, 149
Rhodes, G., 413, 419, 420, 422, 423
Rhodes, H., 232, 235
Ricard, J., 649, 650
RICH, A., 791-846; 130, 298, 317, 318, 404, 431, 773, 794-804, 807, 808, 814-17, 820-23, 825, 828, 829, 833
Richard, C. W., 672, 702
Richards, F. M., 297, 538, 544, 546, 547, 549, 561-65, 600, 602, 620
Richards, R. I., 836
Richardson, C. B., 111
Richardson, D. C., 542, 546, 547, 549, 550, 552, 553, 555-57, 559
Richardson, J., 413
Richardson, J. P., 420, 421, 426, 429, 430, 432
Richardson, J. S., 540, 542, 555, 557-60
Richardson, N. G., 642
Richert, D. A., 248
Richman, R. A., 760
Richmond, T., 547, 549, 564
Richter, D., 99, 154, 670, 672, 676, 683, 688, 703, 767
Richter, H., 862
Richter, P. H., 398
Riddle, G. D., 236, 251
Riddle, V. G. H., 284
Riesenfeld, J., 853
Rifkind, R. A., 769
Rigby, B. J., 723
Rigby, P. W. J., 452
Riggs, A. D., 333, 334, 336, 337, 344, 347, 348
Rigopoulou, D., 673
Riley, M., 196, 217, 222, 427
Riley, M. C., 266
Riley, W. D., 358, 359, 361-64, 383, 384, 759
Rinderknecht, E., 267
Ring, S. G., 632
Ringold, G. M., 456, 464, 466
Riniker, B., 666, 671
Rio, P., 817, 818, 839
Riopelle, R. J., 275
Riordan, J. R., 457
Rios-Candelore, M., 266
Ripley, S., 461, 464
Ris, H., 174, 188
Risteli, J., 734
Ritchie, D. G., 219
Ritchie, P. A., 49, 67
Ritossa, F., 111
Ritossa, F. M., 454
Rittel, W., 666, 671
Rivier, C., 666, 671, 690
Rivier, J., 666, 669, 671, 677, 690
Rixon, M. W., 220, 222
Rizzino, A., 286
Robakis, N., 84, 148
Robberson, D., 576
Robbins, D. C., 701
Robbins, D. J., 145
Robbins, K., 269, 270
Robbins, K. C., 269, 461
Robbins, M., 525
Robbins, P. W., 22
Robert de Saint Vincent, B., 461, 464-66, 471
Robert-Nicoud, M., 177, 805-8, 811, 817, 818, 828, 831, 837, 840
Roberts, A. B., 266-68, 282, 286
Roberts, B. E., 675
Roberts, G. C. K., 50, 242-44, 251, 252
Roberts, G. P., 233, 244, 248, 252
Roberts, J. E., 235
Roberts, J. L., 274, 668, 676, 680, 688, 691, 692, 696-99
Roberts, J. M., 459, 464-66, 477, 479
Roberts, J. W., 422, 423, 425, 426, 428, 429, 431, 437, 438
Roberts, T. M., 294
Robertson, D., 470
Robey, P. G., 733, 855
Robins, D. M., 461, 464
Robins, S. P., 719-24, 726, 727, 730, 731, 734, 737, 742
Robinson, A. J., 178, 182
Robinson, C., 520
Robinson, H. C., 851, 854, 855
ROBINSON, J., 847-69; 858, 864, 865
Robison, G. A., 263, 283
Rochaix, J.-D., 120, 122, 152, 450
Roche, J., 100
Rochemont, J., 701
Rodbard, D., 854
Rodén, L., 848, 851
Rodger, C. D., 64
RODGERS, M. E., 35-73
Rodriquez, R. L., 390, 427
Rodwell, A. W., 360
Roe, B. A., 587
Roe, J.-H., 397, 410, 771

Roeder, R. G., 111
Roerig, S., 647
Rogers, D. T., 169, 188, 189
Roget, A., 344, 348
Rohrer, H., 422
Roiha, H., 455
Roisch, U., 394, 398, 417
Roizman, B., 770
Rokita, S., 527, 528
Rollins, B. J., 864
Rombauer, R., 383
Rombouts, F. M., 640
Romeo, J. M., 408
Romero, P. A., 652
Rona, P., 4
Roninson, I. B., 472, 485
Roof, W. D., 436
Roon, R. J., 758
Roos, B. A., 676, 693
Roos, P., 666, 670
Rosa, P., 696, 699
Rosa, P. A., 697-99
Rosano, C. L., 774
Rosbach, M., 110
Rose, G. D., 540, 616, 619
Rose, K. M., 776, 777
Roseau, G., 40, 42
Rosen, H., 680, 690, 705
Rosenberg, A., 546
Rosenberg, J. M., 298, 317, 404, 431, 794
Rosenberg, M., 80, 88, 97, 109, 294, 313, 390, 402, 403, 418, 422-28, 431, 437
Rosenberg, R. D., 853, 860, 864
Rosenberg, R. N., 457
Rosenberg, S., 394, 396, 398, 401, 409, 410, 417
Rosenbloom, J., 738, 739
Rosenblum, M. G., 781
Rosenbusch, J. P., 597, 600, 617
Rosenfeld, M. G., 669, 676, 683, 684, 693
Rosengren, E., 757, 764, 772
Rosenthal, E., 100
Rosenthal, S. M., 373, 750, 776, 777, 780
Rosenthaler, J., 360, 361, 364, 384
Roskoski, R. Jr., 30
Ross, A., 127, 128, 140-42, 145
Ross, A. H., 600
Ross, J. M., 605
Ross, N. A., 584
Ross, R., 261, 266, 269, 275, 278, 280, 736, 739
Ross, W., 332
Rossana, C., 457
Rosser, R. W., 51
Rossi, J., 91, 431
ROSSI, J. J., 323-56; 332, 335, 336, 346-48, 350, 404, 412
Rossier, J., 669, 702, 703
Rossmann, M. G., 538, 557-60, 568
Rostomily, R., 765
Roswell, D. F., 497
Roth, G. F., 523
Roth, J., 275, 279, 280, 285, 452, 453
Roth, J. R., 432, 452, 453
Roth, R. A., 278, 279
Roth, S. E., 676
Rothman, B. S., 669, 671, 672, 685, 687
Rothman, J. E., 675
Rothmans, S. M., 471
Rothstein, R. J., 167, 188, 190, 476, 477, 479
Rottman, F., 413
Rousseau, N., 806, 818
Routhier, R., 674, 698
Roux, E., 122, 152
Rowe, A. J., 45, 54, 58
Rowe, D. W., 740-42
Rowe, J. M., 266
Rowold, E. A., 743
Rozengurt, E., 266, 280, 281
Rozovskaya, T. A., 420
Rozovski, S. J., 743
Ruben, G. C., 771
Rubenstein, A. H., 701
Rubin, G., 176, 180, 181
Rubin, G. M., 485
Rubin, H., 677
Rubin, J. S., 261-63, 266, 271, 273, 282, 285
Rubin, K., 858
Rubin, L., 736, 738
Rubinstein, B., 652
Rubnitz, J., 470
Rubtsov, P. M., 121, 122, 152
Rucker, R. B., 734, 739, 742
Rucklidge, G. J., 720
Ruddle, F. D., 680
Rudee, M. L., 201, 203-5
Rudin, D. O., 600, 603
Rudland, P. S., 261
Rudolph, R., 567
Rüegg, J. C., 56
Ruet, A., 413
Ruffler, D., 105
Rukmini, V., 761
Ruley, H. E., 461
Rünzi, W., 108
Ruoslahti, E., 854, 855, 857, 862
Ruoslahti, E. R., 863
Rupley, J. A., 561, 562, 565
Rupp, C., 211
Ruppert, S., 670, 672
Rusconi, S., 836
Rushow, K., 332
Russel, M., 89, 90
Russell, D. H., 376, 750, 763, 764, 767, 772, 777, 781, 782
Russell, D. R., 404, 417
Russell, J. T., 673, 674
Russell, S. A., 232, 241
Russell, W. C., 178, 182, 819, 826
Rutter, W. J., 262, 669, 671, 677, 680
Rutting, J. H., 561
Ruysschaert, J. M., 620
Ryals, J., 102
Ryan, C. A., 656
Ryan, G., 688
Ryan, J., 456
Ryan, T., 391, 423
Rybski, J. A., 756, 766
Ryhänen, L., 741
Ryte, V. C., 127, 128

S

Sabatini, S., 780
Sabo, D. L., 755
Sabol, S. L., 676, 693, 703
Sabourin, C. L. K., 457
Saccone, C., 120, 584, 586
Sachs, H., 668, 673
Sachs, R. M., 658
Sadkov, A. P., 235
Sadun, C., 546
Safer, B., 776, 780
Saffer, J. D., 829
Saffran, M., 666, 670
Saffran, W., 177
Sage, E., 806, 817, 818, 831, 839
Said, S. I., 666, 671
Saiki, T., 249
Sain, B., 96, 97, 99
Saint-Ruf, G., 817, 818, 839
Saito, S., 863
Saito, Y., 212
Sakabe, K., 540
Sakabe, N., 540
Sakai, T., 359, 374, 376, 377, 758, 759, 769
Sakai, T. T., 377, 773
Sakaki, Y., 123
Sakamoto, K., 726
Sakamoto, M., 669, 682
Sakashita, S., 862
Sakura, S., 726
Sakurai, Y., 636
Salacinski, F., 700
Salamini, S., 650
Salcedo, L. L., 739
Salemme, F. R., 307, 541, 559
Salim, M., 121-23, 136, 152
Salmon, J. B., 359, 361, 362, 365
Salomon, D. S., 280, 281

Salser, W., 126, 135, 470
Salstrom, J. S., 432, 437
Salzer, W., 126
Sambrook, J., 450, 466, 675, 676
Samejima, K., 760, 763, 782
Samet, J., 41
Sanchez-Pescador, R., 267, 271, 273, 274, 669, 671
Sandberg, L. B., 719, 736, 738, 739, 741-43
Sander, C., 556, 564
Sander, G., 776
Sanders, F. K., 863
Sanderson, M. C., 743
Sands, J., 150
Sanger, F., 27, 120-24, 134, 136, 152, 332, 344, 574-76, 578, 584, 586, 587, 590, 679
Sano, I., 780
Sano, K., 281, 287
Santa Cruz, D. J., 742
Santaniello, E., 372
Santella, R. M., 817, 818, 839
Santelli, R. V., 452
Santer, M., 153
Santerre, R. F., 671, 672, 678, 683
Santi, D. V., 456, 525, 526
Santonastaso, V., 100
Sar, M., 693
Sarabhai, A., 88
Saragosti, S., 834, 838
Sard, L., 329
Sargent, J. A., 656
Sarhan, S., 780
Sarkar, P., 432
Sarma, M. H., 805, 812
Sarma, R. H., 805, 812, 819
Sarmientos, P., 97-99, 106, 109
Sarvetnick, N., 480
Sasaki, K., 241, 540
Sasaki, S., 722
Sasisekharan, V., 307, 539-42, 803, 815
Sathe, G. M., 325, 326, 328
Sato, G. H., 261
Sato, M., 340
Sato, S., 241, 638, 651, 652
Satre, M., 359, 377, 378, 383, 384
Saucier, J.-M., 420
SAUER, R. T., 293-321; 294, 299-301, 303, 305, 311-13, 316, 390, 392, 393, 405, 416, 418
Sauerwald, R., 327
Sauter, S., 376
Savage, C. R. Jr., 267, 268, 271, 666, 671, 704
Savageau, M. A., 434
Sawada, H., 733
Sawyer, L., 539, 542
Sawyna, V., 45
Scaife, J., 83
Scarpulla, R. C., 335
Schachter, B. S., 691
Schachtshabel, D. O., 864
Schad, P. E., 734
Schaffner, W., 836
Schamale, H., 683, 688
Schamber, F., 337
Schauer, A., 437, 438
Schauer, A. T., 438
Schechter, P. J., 761
Scheek, M., 742
Scheffler, I. E., 457, 754, 755, 762
Scheidtmann, K. H., 223
Schein, J., 739
Scheit, K. H., 152, 413
Scheller, R. H., 669, 671, 672, 685, 687
Schellman, C., 540
Schellman, C. G., 540, 558
Schellman, J. A., 561, 771
Schenk, E. A., 173
Schenone, A., 375-76, 750, 762
Scher, C. D., 261, 269, 281, 283, 284
Scheraga, H. A., 200-3, 207, 209, 216, 540-42, 562
Scherer, G., 423
Scherer, S., 170
Schiffer, M., 311, 610
Schild, D., 165
Schimke, R. T., 448, 449, 456, 458, 459, 461, 464-68, 475
Schimmel, P., 525
Schirlin, D., 762
Schirmer, R. H., 538, 557
Schleich, T., 127, 147, 149
Schlesinger, D. H., 666, 670
Schlessinger, D., 127, 128, 141, 142, 390
Schlessinger, J., 268, 278, 279, 283, 285
Schloon, H., 740
Schloss, J., 530
Schmale, H., 670, 672, 676, 683, 703
Schmid, C. W., 466, 480
Schmid, K., 852
Schmid, M. B., 432
Schmid, M. F., 604
Schmidmayr, W., 617
Schmidt, B., 522
Schmidt, F. O., 56, 147, 151, 156
Schmidt, L. J., 284, 287
Schmidt, M. C., 425
Schmidt, R. J., 111
Schmitt, S., 524
Schmitz, A., 98, 392, 410, 417, 422
Schnackerz, K., 508
Schnaitman, C. A., 377
Schnare, M. N., 120, 129, 135
Schneider, E. A., 627, 628
Schneider, T., 88, 151
Schnier, J., 95
Schnitker, U., 239
Schoenberg, M., 64
Schoenborn, B. P., 600
Schold, M., 345, 348
Scholey, J. M., 36, 45, 60, 62
Schöllhorn, R., 234
Schrag, J. L., 51
Schramm, H.-J., 204
Schrauzer, G. N., 241
Schreck, R., 460, 462, 464, 471
Schreck, R. R., 460, 462
Schreiber, A. B., 278, 279, 283, 285
Schreier, P. H., 587
Schrode, J., 781
Schuber, F., 765
Schubert, D., 865
Schubert-Prinz, R., 859
Schuch, W., 334, 336
Schughart, K., 349
Schuller, R., 337
Schultz, W., 413
Schultzberg, M., 702
Schulz, G. E., 538, 557
Schulz, G. V., 631
Schulze, D. H., 338
Schumaker, V. N., 826
Schumperli, D., 88
Schur, P. H., 806, 808
Schurr, J. M., 771
Schutz, G., 670, 672, 683, 703
Schwab, M., 285, 460, 462
Schwabe, C., 268
Schwartz, A. C., 380, 382
Schwartz, C., 855
Schwartz, D. C., 177
Schwartz, E., 437, 739
Schwartz, H. M., 782
Schwartz, I., 153
Schwartz, I. L., 666, 670
Schwartz, J. H., 687
Schwartz, J. P., 687, 693
Schwartz, K., 54
Schwartz, N. B., 851
Schwartz, S. M., 266
Schwartz, T. W., 704
Schwartz, Z., 120, 122, 152
Schwarz, E., 423
Schwarz, E. M., 611, 616, 617, 619
Schyolkina, A. K., 771
Scott, A. P., 696, 698, 699
Scott, J., 267, 271-74, 669, 671, 688
Scott, J. E., 733, 861
Scott, K. F. F., 767
Scott, M., 451

Scott, P. G., 723
Scott, W. A., 834, 838
Scouten, W. H., 325
Scrace, G. T., 267, 269, 270, 286, 461
Seale, T. W., 781
Seebeck, T., 772
Seeburg, P. H., 336, 341, 345, 670-72, 678, 680, 690, 705
Seeds, W. E., 316
Seegan, G., 61, 63
Seelig, T., 208
Seely, J. E., 757, 761-64, 776-79
Seeman, N. C., 298, 317, 404, 431, 794
Sefton, B., 28
Sefton, B. M., 278
Segel, H., 238, 240
Segrest, J. P., 607, 608, 616
Seidah, N. G., 674, 698, 699, 701
Seidel, J. C., 65-67
Seidman, C., 233, 244, 252
Seifter, S., 736, 737
Seiler, N., 505, 776-80
Seilhammer, J. J., 120, 122, 123
Seizinger, B. R., 697, 699
Seki, T., 120, 122, 123, 152, 584
Sekine, T., 40, 41, 67
Sekiya, T., 98, 431
Selby, C. C., 57
Selby, M., 267, 271, 272, 669, 671, 688
Seliger, H., 671, 672, 678
Seligmann, M., 196, 199
Selivanova, O. M., 148
Seljelid, R., 852
Sell, S. M., 54
Selvendran, R. R., 632, 642, 644, 645, 647-49
Semina, L. A., 359, 370, 371, 384
Semler, U., 631
Senior, A. E., 597
Senior, B. W., 151
Sentenac, A., 413
Seppänen, P., 761-63
Sequeira, L., 647, 648
Serafini-Fracassini, A., 719
Sergeev, N. S., 233, 235, 236
Serio, G. F., 392
Server, A. C., 271
Seto, B. L., 238, 359, 380, 382-84
Setzinger, B., 703
Severtsova, I. V., 336
Sexton, O. J., 734
Seyfried, C. E., 359, 374, 376, 377, 758, 760, 762, 767
Shafer, J. A., 200
Shaffer, J., 338, 342, 347, 678
Shah, H. O., 457
SHAK, V. K., 231-57; 232-37, 239, 242-44, 246, 250-52
Shainoff, J. R., 199, 205, 208, 209, 214
Shane, S., 153
Shaner, S. L., 396, 397, 407, 408, 771
Shanley, D. J., 864
Shannon, L. M., 649, 650
Shapiro, F., 723
Shapiro, F. D., 725, 726, 732, 741
Shapiro, J. A., 480
Shapiro, M., 673
Shapiro, R., 738
Shaposhnikov, G. L., 233, 235, 236
Sharkis, S. J., 761
Sharp, J. A., 430, 627, 630, 653
Sharp, P. A., 461, 464-66, 470, 577
Shatsky, I. N., 120, 144, 145
Shaw, D. J., 312
Shechter, Y., 275, 279
Sheehan, J., 854
Sheehan, J. K., 863
Shemyakin, M., 413
Shen, L. P., 669, 671, 677
Shen, S. C., 244
Shen, V., 105, 108
Shen, W.-F., 97
Shepard, H. M., 341
Shepard, R. C., 261
Shepherd, N. S., 108
Shepherd, R. G., 699
Sheppard, R. C., 666, 671
Sheppard, S. L., 773
Sher, B., 220, 221
Sherman, F., 337, 338, 341
Sherman, T., 676
Shermoen, A. W., 111
Sherrington, D. C., 325
Shiba, K., 78
Shiba, T., 780
Shibahara, S., 669, 671, 679, 682
Shibasaki, T., 669-701
Shibuya, G. I., 312
Shibuya, M., 91
Shibuya, N., 632, 633, 638, 640
Shida, T., 817, 818
Shields, B., 696
Shields, D., 676
Shields, R., 282
Shigesada, K., 430, 432
Shih, M.-C., 417
Shiltz, J., 78
Shimada, K., 860
Shimamoto, N., 413
Shimatake, H., 294, 422-24, 426, 431, 437
Shimizu, A., 212
Shimizu, K., 725
Shimizu, M., 852
Shimizu, N., 154
Shimokawa, H., 722
Shimokomaki, M., 722, 723, 727
Shin, Y. A., 837
Shinagawa, S., 502
Shine, J., 151, 341, 586, 680, 688
Shinedling, S., 88, 151
Shinnick, T. M., 352
Shinomura, T., 854, 857
Shiota, S., 183
Shiozawa, R., 632, 633
Shiu, R. P. C., 266
Shively, J. E., 702
Shobu, N., 469
Shoenberg, C. F., 62
Shooter, E. M., 103, 261, 271, 273, 275, 277, 282, 285, 673, 674
Shortle, B. E., 809
Shortle, D., 343, 345
Shotton, D. M., 539, 542, 597
Show, W. V., 613, 615
Shoyab, M., 280, 281
Shrager, R. I., 205
Shrake, A., 561, 562, 565
Shridhar, P. D., 854
Shu, J. C., 666
Shukla, J. B., 781
Shulman, N. R., 199
Shumway, N. P., 666, 671
Shuster, L., 20
Shuttleworth, A., 733
Shuttleworth, K., 768
Sias, S., 336
Siat, M., 767, 768, 776, 777
Sibold, L., 244, 248
Sidarova, N., 336
Siddiqui, I. R., 642
Siebenlist, U., 402, 403, 407, 408, 411, 410, 431
Siefken, D. A., 776, 777
Siegel, B. M., 202, 207, 209
Siegel, R., 120, 122, 127, 130, 140, 141
Siegel, R. B., 125-27, 129-31, 138, 139
Siegel, R. C., 719, 741, 742
Siegel, R. H., 742
Siegman, M., 283
Siehnel, R. J., 109
Sielecki, A. R., 539, 540, 542, 543
Sigler, P. B., 604
Sigmund, C. D., 151
Siimes, M., 777
Silberkang, M., 127

Silbert, J. E., 853, 855, 860
Silhavy, T. J., 78
Silver, M., 701
Silver, S., 250
Silverman, M., 312
Silverman, R. B., 494, 506
Silverton, E. W., 557
Siminovitch, L., 457, 470
Simmes, M., 761
Simmons, R. M., 64-67
Simon, A., 515
Simon, M., 312
Simon, M. I., 620
Simoni, R. D., 456, 458
Simonsen, C. C., 464, 472
Simonson, J. G., 236, 251
Simpson, R. B., 402, 403, 407, 408, 410, 411, 431
Sinanoglu, O., 561
Sindhu, R. K., 760
Sinervirta, R., 375, 384, 777, 781
Sinex, F. M., 736
Singer, B. S., 88-90, 151
Singer, S. J., 352
Singh, H. N., 250
Singh, M., 326, 327, 330
Singh, R. K., 250
Singh-Bermann, K., 147
Singleton, C. K., 805, 817, 820, 822, 825, 828
Sinha, N. D., 328
Sinn, L. G., 666, 671
Sinnott, M.L., 495, 502
Sivaramakrishnan, M., 40, 45
Sjöberg, I., 865
Sjoerdsma, A., 761, 762
Skeggs, L. T. J., 666, 671
Skinner, D. M., 168
Sköld, S.-E., 156
Skopek, T. R., 304
Skorstengaard, K., 216
Skouv, J., 81, 95
Skripkin, E. A., 127, 128, 139
Skryabin, K. G., 121-23, 136, 152
Skup, D., 336
Slayter, H. S., 47, 49, 62, 196, 197, 201-5, 207, 209
Sleeter, D. D., 97, 98, 121, 131
Slightom, J. L., 837
Slizinger, B. R., 690, 692
Sloof, P., 147
Slotboom, A. J., 605
Sluke, G., 864
Small, D., 512
Small, J. V., 59, 60, 62
Smart, J. E., 278
Smedsrod, B., 859
Smelik, P. G., 690
Smiley, B. L., 78-80
Smith, A. E., 348, 349
Smith, B. E., 232-35, 246, 247
Smith, C., 61, 63
Smith, C. G., 857, 862
Smith, D. W., 738
Smith, G. F., 209
Smith, G. M., 249, 251
Smith, G. R., 838
Smith, I., 77, 96
Smith, J. A., 540, 855
Smith, J. D., 863
Smith, M., 179, 268, 336, 337, 341, 344, 345, 347, 348, 839
Smith, M. A., 645
Smith, M. M., 635
Smith, P. R., 43
Smith, R. C., 62, 743
Smith, S., 266
Smith, T. A., 750, 757, 758, 779-81
Smith, T. F., 126
Smith, T. W., 666, 670
Smithies, O., 352, 837
Smits, M. T., 815
Smolenski, K. A 734
Smyth, D. G., 695, 697, 699
Sneath, P. H. A., 377, 754
SNELL, E. E., 357-87; 358-65, 367-69, 383, 384, 755, 759
Snider, R., 739
Snowden, J. M., 727
Snyder, S. H., 358, 763
So, A. G., 413
Sobell, H. M., 802, 806, 816
Soberon, X., 336, 350, 404, 412
Sobieski, D., 88
Sobieszek, A., 59, 60, 62
Sobue, M., 852
Soda, K., 496, 507
Sofia, M., 498
Sokhina, A. M., 371
Sokol, H. W., 688
Sokolovsky, M., 384
Soll, A. H., 279, 280, 285
Soll, D., 325
Sollner-Webb, B., 111
Solomon, S., 669, 697, 700, 701
Solursh, M., 861
Somlyai, G., 97, 99
Somlyo, A. P., 63
Somlyo, A. V., 63
Sommarin, Y., 859, 860
Sonenberg, N., 155
Sood, A. K., 341
Soper, T., 505, 507
Sor, F., 120, 122, 123, 151, 152, 155
Soressi, G. P., 650
Soria, C., 215
Soria, J., 215
Soskel, N. T., 738, 739, 741-43
Sotterup-Jensen, L., 216
Soucy, D. M., 719
Southan, C., 200
Southern, E. M., 351, 679
Southgate, C. C. B., 562, 563, 606-8
Spadaro, A., 100
Spathas, D. H., 754
Spear, B. B., 183
Spears, C., 438
Speckhard, D. C., 392
Spector, L., 21, 22
Speiss, J., 690
Spellman, M. W., 640, 641
Spena, A., 100
Spence, J. T., 241
Spencer, D. F., 120, 129, 135
Spencer, F. S., 631
Spencer, R., 518, 531
Spengler, B. A., 448, 449, 469, 460, 462, 470, 472
Sperl, G. T., 245, 252
Sperrazza, J. M., 774
Speyer, J. F., 98, 109
Spiegelman, S., 454
Spierer, P., 147, 149
Spiess, J., 666, 671
Spigelman, L., 668
Spitnik-Elson, P., 145
Spodheim-Maurizot, M., 817, 818, 839
Spolski, R. J., 219
Sponar, J., 809, 825, 828
Sporn, M. B., 261, 264, 266-68, 282, 286
Spottswood, T., 469
Spradling, A. C., 451
Sprang, S., 566
Spremulli, L. L., 774
Sprinzl, M., 154
Sproat, B. S., 326, 327, 330
Squire, J. M., 52-54, 57
Squires, C. L., 83, 97, 105, 436
Srere, P., 21, 527
Sréter, F. A., 40, 41
Srinivasan, A., 461
Srinivasan, A. R., 815
Srivenugopal, K. S., 758
SriWidada, J., 147, 155
Stacey, G., 123, 244
Stackebrandt, E., 124
Stadler, J. K., 457
Stadtman, E. R., 20, 21, 524
Stadtman, T. C., 359, 380, 382
Staempfi, S., 151
Stafford, W. F., 51, 62
Stahl, D. A., 125-27, 129-31, 138, 139, 157
Stalon, V., 758
Stamatoglou, S. C., 865
Stammer, C. H., 384
Stankiewicz, A., 587
Stanley, M., 510

Starcher, B. C., 736, 738, 739, 741, 742
STARK, G. R., 447-91; 456-58, 460, 464, 466-73, 477, 482, 483, 485, 687
Stark, M. J. R., 98, 100, 151
Staros, J., 277
Starr, R., 54, 59, 60
Starzyk, C. K. R., 525
Stasiak, A., 804, 808, 822, 824, 829, 830, 841
Stathakis, N. E., 216
Staub, A., 327, 666, 671
Staudte, R. G., 636
Stauffacher, C. V., 204
Staunton, J., 364, 372, 375
Stavnezer, J., 451
Stead, N. W., 413
Steege, D., 88
Steel, E. R., 237, 238, 241, 245, 249
Stefano, J. E., 401, 404, 406, 409, 411-16
Steglich, C., 754
Steigemann, W., 539, 540
Stein, A., 703
Stein, P. R., 126
Stein, R., 340, 341, 677, 678
Stein, S., 702, 703
Stein, T., 853
Steinberg, R., 299
Steiner, A. L., 236, 251, 252
Steiner, D. F., 340, 666, 668, 673, 674, 696, 704
Steiner, H., 613, 615
Steiner, R. F., 207
Steinmann, B., 741
Steitz, J. A., 97, 151, 152, 312, 586
Steitz, T. A., 294, 306-8, 310-12, 600, 606, 617
Stenzel, P., 564
Stern, A. M., 528
Stern, A. S., 702, 703
Stern, R., 769
Sternbach, H., 420
Sternberg, M. J. E., 547, 550, 552-54, 556-59, 564
Stettler, U. H., 825
Stevens, B. J. H., 642
Stevens, L., 750, 770
Stevens, R. L., 852
Stewart, A. G., 341, 342
Stewart, J. W., 337, 688
Stewart, M., 47, 50, 52-55, 65
Stewart, V., 246, 252
Stiefel, E. I., 233-35, 241, 245
Stiege, W., 139, 141, 145
Stiegler, P., 125, 126, 129, 130, 136, 152
Stiles, C. D., 261, 269, 281, 283, 284
Stiles, J. I., 337, 338, 341
Stinard, P. S., 635
Stinchcomb, D. T., 165-67, 169
Stirdivant, S. M., 805, 810, 817, 818, 820, 822, 825, 827, 828, 839
Stirtz, T., 723
St. John, A. C., 100
St. John, R. T., 233, 244, 252
Stockburger, M., 804, 805, 810, 817, 826
Stocker, A. J., 452
Stockton, J. F., 808, 822, 824, 830
Stoddart, R. W., 640
Stoeckenius, W., 600
Stöffler, G., 89, 120, 143-45
Stöffler-Meilicke, M., 143-45
Stokes, A. R., 316
Stokrova, S., 809, 825, 828
Stollar, B. D., 803, 806-9, 815, 816, 818, 822, 823, 825, 829, 831, 833
Stone, B. A., 636, 642, 644, 647-49
Stone, D., 45
Stormo, G., 88, 151
Stormo, G. D., 89, 90
Stoscheck, C., 277
Stoscheck, C. M., 760
Stout, P. R., 237
Strahm, A., 649
Strathern, J. N., 169, 190
Straub, F., 196
Strauch, M., 438
Straus, D. S., 453
Straus, J. W., 675
Straus, L. D., 453
Strauss, H. S., 396, 402, 406, 407, 417
Strecker, G., 626
Street, H. E., 630
Strittmatter, P., 523
Strong, D. D., 196, 201, 203, 204, 206, 214, 217, 218, 222, 575
Stroobant, P., 267, 269, 270, 286, 461
Stroud, R. M., 598, 600, 601, 618, 611
Stroynowski, I., 423
Struhl, K., 165
Strycharz, G. D., 80-82, 86-88, 93
Strycharz, W. A., 81-84, 88
Stryer, L., 204, 606
Stuart, D. A., 644, 646, 647, 649
Stuart, D. K., 666, 671
Stubbe, J. A., 504
Studier, F. W., 152
Studnicka, G. M., 126, 135
Stuhlsatz, H. W., 853
Stumpe, A., 327
Stumpf, W., 693
Sturmwasser, F., 666, 671
Sturtevant, J. M., 300
Stutz, E., 122, 152
Su, C.-H., 752
Su, T.-S., 457
Su, Y.-F., 266, 279
Subbarow, Y., 5
Subramanian, E., 540
Suck, D., 43
Suda, M., 669, 682
Suda, T., 729
Suddath, F. L., 794
Sudo, T., 457
Sueoka, N., 96, 677
Sueoka, S., 691
Sugeta, H., 782
Suggs, S. V., 338, 339
Sugino, A., 457, 589
Sugiura, M., 120, 122, 123, 152
Sullivan, D., 451
Sullivan, K. A., 719
Sumi, S., 336
Summers, M. C., 375, 779, 780
Sumner, A. T., 174
Sundin, O., 191, 834, 838
Sundler, F., 700, 701, 757
Sung, M. T., 313
Sunkara, P. S., 769
Supiano, M. A., 244, 248
Surosky, R. T., 167, 169
Suscillon, M., 200
Susi, H., 561
Susskind, M. M., 313, 403, 406, 409-11, 414
Sussman, J. L., 134, 316
Sutherland, E. W., 263, 283
Sutherland, G. R., 480
Sutherland, J. C., 804, 809, 810
Sutherland, J. M., 743
Sutoh, K., 40, 42-45, 49, 65, 67
Sutter, A., 275
Suttle, D. P., 456
Suva, R. H., 780
Suzuki, H., 60, 62
Suzuki, M., 336
Suzuki, S., 852, 854
Suzuki, T., 648
Suzuki, Y., 451
Svendsen, L., 211
Svensson, S., 627
Svoboda, M. E., 266, 279
Swann, D. A., 727
Swanton, M. T., 177, 183
Swarm, R., 863
Sweet, R. M., 607, 609
Swenson, C. A., 49, 67
Swermann, J., 859
Swindle, J., 438
Swyryd, E. A., 456, 458, 468
Sylvester, J. E., 97, 99, 106, 413, 416

Symonds, G. W., 376
Symons, R. H., 155
Szabó, G., 97
Szent-Györgyi, A. G., 38, 45, 46, 56, 57, 62
Szentkiralyi, E. M., 40
Szilagyi, L., 41
SZOSTAK, J. W., 163-94; 165-67, 177, 184-86, 188, 189, 191, 337, 338, 341, 450, 454, 476, 477, 479, 829, 840
Szu, S. C., 817
Szuchet, S., 58
Szybalski, W., 431, 432, 437

T

TABOR, C. W., 749-90; 359, 373-77, 383, 384, 750, 752-55, 760, 763-65, 767, 768, 770, 774-76, 781
TABOR, H., 749-90; 354, 359, 373-77, 383, 384, 750, 752-56, 758-60, 762-68, 770, 774-76, 781
Taboury, J., 805
Tachibana, S., 666, 670
Taft, D. O., 692
Tager, H. S., 666, 673, 674, 704, 705
Tai, P.-C., 105
Taii, S., 691
Taillandier, E., 808, 831, 832
Taira, M., 581
Tait, J. F., 275
Taiz, L., 634
Takabataki, Y., 668, 673
Takacs, P. Z., 804, 809
Takagaki, Y., 600
Takagi, T., 196, 198, 199, 203, 205, 214, 222
Takahashi, H., 249, 669-72, 678-80, 682
Takahashi, K., 49, 60, 62
Takahashi, N., 98
Takai, Y., 281, 287
Takaiwa, F., 120, 123
Takanami, M., 429
Takano, T., 539, 540, 801, 803, 804
Takaoka, C., 267, 271
Takashi, R., 41
Takashima, H., 327
Takata, R., 80, 81, 87, 90
Takatsu, K., 266
Takebe, I., 631, 657
Taked. S., 632, 633
Take , T., 725
Takeda, Y., 294-98, 303, 304, 311-16, 404, 405, 431, 782
Takemoto, T., 769, 775, 776
Takemura, S., 124, 129, 135
Takeuchi, J., 852, 863
Takor, T. T., 666
Talalay, P., 528
Talbot, J. A., 50
Talens, A., 91
Talkington, C., 418
Talmadge, K. W., 626, 632, 637, 644, 651, 652, 657
Tam, M. F., 148
Tan, E., 173
Tan, E. M., 173
Tan, Z. K., 331
Tanabe, K., 854
Tanaka, I., 701
Tanaka, K., 631
Tanaka, M., 763
Tanaka, N., 152
Tanaka, S., 336, 345, 801, 803, 804
Tanaka, T., 327
Tanase, S., 358
Tanford, C., 561-63, 607, 608
Tang, D. B., 220
Tang, F., 687, 693
Tang, K.-C., 763, 767
Tang, S.-S., 512, 719
Taniguchi, T., 152, 267, 271, 702
Taniyama, Y., 334, 336
Tanner, G. R., 635
Tantravahi, U., 469
Tanzer, M. L., 719-23, 726, 728, 732-34, 736, 740
Tao, T., 41
Tapper, D. P., 578, 581
Tarcsafalui, A., 40
Tardif, C., 457, 755, 757, 762, 765
Tartakovskii, S. A., 370
Tartof, K. D., 449, 450, 455, 466, 480
Tate, S. S., 379
Tatoya, M., 240
Tatsunami, S., 495
Tattershall, P., 179
Tavale, S., 806, 816
Tavianni, M. A., 669, 671, 677
Taylor, B. H., 153
Taylor, E. W., 36, 64, 65
Taylor, J. M., 451
Taylor, K. A., 37-39, 43, 60, 62
Taylor, R. H., 586, 587
Taylor, S. L., 371
Taylor, T. K. F., 743
Taylor, W. L., 669, 671, 678
Taylor, W. R., 550, 552-54, 556, 564
Teeter, M. M., 773
Teissere, M., 837
Telford, J. N., 201, 203
Teller, D. C., 565, 566
Telser, A., 736
Telzer, B. R., 174
Teplitz, R. L., 342, 347, 352, 353
Terada, H., 769
Teranishi, Y., 680, 692
Terayama, H., 864
Terenius, L., 702
Terry, B. J., 400
Terry, M. E., 652
Terwilliger, T. C., 565, 602, 603, 607-11
Tesch, R., 208
Tesser, P., 318, 808, 827, 831
Thain, E. M., 20
Thalenfeld, B. E., 575
Thamann, T. J., 804, 805, 810
Thammana, P., 127, 128, 139, 140, 142
Tharpe, S. R., 743
Thauer, R. K., 239
Theander, O., 642
Thelander, L., 457
Then, R., 502
Therkildsen, L., 213
Thewalt, U., 806, 816
Thiebaud, C. H., 450
Thill, G., 363, 364
Thireos, G., 451
Thoenen, H., 261, 266, 273, 283, 285
Thogersen, H. C., 216
Thomae, R., 804, 806-8, 822, 824, 826, 829, 830, 841
Thomas, C. A. Jr., 336
Thomas, D. D., 65-67
Thomas, D. W., 201
Thomas, G., 283, 284
Thomas, G. J. Jr., 810, 805, 811
Thomas, J., 736
Thomas, K. A., 266, 267, 557
Thomas, P. S., 687
Thomas, T. J., 771, 805, 813, 819
Thompson, E., 200
Thompson, J. F., 120, 127, 128, 140, 145, 147, 151, 152, 156, 586
Thompson, R. C., 775
Thompson, R. D., 180
Thompson, R. G., 636
Thomson, J. N., 174
Thonar, E. J.-M., 854
Thorell, J. L., 700, 701
Thornburn, P., 169, 181, 188-90
Thorneley, R. N. F., 243
Thorner, J., 684
Thornton, J. M., 542, 556-59, 564
Thornton, S. C., 864
Thorpe, T. A., 650
Thunberg, L., 852

Thuong, N. T., 805, 812, 821
Thurlow, D. L., 85, 148, 153
Tidball, J. G., 736
Tidor, B., 815
Tilders, F. J. H., 690
Timan, G., 200
Timasheff, S. N., 561
Timell, T. E., 642
Timko, J., 312
Timko, K. D., 574, 580, 585
Timmons, S., 217, 218
Timpl, R., 732, 734, 862, 863
Tinker, D., 739
Tinoco, I., 126, 427
Tippit, D. H., 174, 175
Tischendorf, G., 143-45
Tisher, E., 345
Tissières, A., 753
Titmas, R. C., 326, 327, 330
Tlsty, T. D., 453, 468, 471, 472
Tobimatsu, T., 680, 682
Tobler, H., 449
Todaro, G. J., 261, 264, 266, 267, 275, 280, 281, 286
Tohdoh, N., 120, 122, 152
Tokura, S., 40
Tolson, N. W., 282
Toman, R., 642
Tomasz, M., 809
Tomioka, N., 120, 122
Tomita, M., 616
Tommerup, I. C., 656
Tompkins, G. M., 282
Tonegawa, S., 337
Toniolo, C., 556
Tonomura, Y., 40, 41
Toole, B. P., 858, 859, 861, 864
Tooney, N. M., 204
Tooth, P., 36, 45, 62
Topp, W., 450, 466
Torakelf, T. K., 755, 757, 764
Torczynski, R., 121, 122, 152
Török, I., 97
Torrence, P., 525
Torres, R. A., 738
Torri, G., 852
Toselli, P., 739
Tosteson, D., 604
Tosteson, M. T., 604
Towbin, H., 152
Towne, D. W., 205
Townsend, R. R., 219, 222
Toyama, S., 496, 507
Toyosato, M., 670-72, 678, 680
Toyoshima, C., 38, 39, 65
Trackman, P., 512
Trackman, P. C., 719
Tracy, H. J., 696
Tralka, T. S., 769
Traloggan, P. J., 851
Tran, V. T., 358
Tran-Dinh, S., 705
Trapkov, V. A., 49
Traub, P., 150
Traub, W., 134, 732
Travers, A. A., 80, 97-99, 102, 414, 425, 440
Traverse, K. L., 168, 176, 180, 181
Traverso, H. P., 737
Trayer, H. R., 45
Trayer, I. P., 45
Traylor, T. G., 250
Treadwell, B. V., 854
Tregear, R. T., 52, 64
Trempe, M. R., 144
Trent, J. M., 448
Tribe, H. T., 657
Trimble, R. B., 90
Trinick, J. A., 54, 58
Trippett, S., 666, 670
Trolp, R., 208
Tronick, S. R., 461
Tropak, M., 84
Tropp, J. S., 773
Trosko, J. E., 457
Trovato, D., 575
Trudinger, P. A., 248
Truffy, J., 60
Trus, B. L., 47, 48
Trybus, K. M., 49, 62
Tsang, S. S., 805, 824
Tschumper, G., 166, 170
Tso, M.-Y. W., 232, 237
Tsong, T. Y., 49, 67
Tsuda, M., 724
Tsuji, M., 852
Tu, C.-P. D., 336, 576-78
Tucker, D., 809
Tuderman, L., 741
Tullis, R. H., 677
Tullius, T. D., 234
Tullman, R., 516
Tuomi, K., 770
Turini, P., 780
Turley, E. A., 850
Turley, P., 512
Turnbough, C. L. Jr., 436
Turner, D. H., 393
Turner, S., 127, 128, 140, 141, 152
Turnock, G., 105
Tushinski, R. J., 109, 111
Tuttle, L. G., 19
Twardzek, D. R., 266-68, 273, 277, 286
Tweedie, J. W., 238, 240
Tweedy, N., 390, 392, 412
Tyagi, A. K., 753-56, 765-67, 772
Tye, B.-K., 167, 169, 181, 337, 338, 341, 451, 480
Tyhach, R. J., 377, 378
Tyler-Smith, C., 471, 472
Tymen, S., 809, 817, 819, 825, 828
Typke, D., 204
Tzagoloff, A., 120, 122, 151, 152, 154, 575

U

Ubasawa, R., 327
Uchiyama, A., 725
Uddman, R., 757
Udenfriend, S., 341, 666, 670-74, 678, 699, 702, 703
Udvardy, A., 97
Udvardy, K., 97
Ue, K., 41
Ueda, T., 506
Ueda, Y., 541
Ueki, K., 650
Ueno, H., 47-49, 67, 68, 507, 508
Uesugi, S., 817, 818
UGALDE, R. A., 231-57; 237, 239-47, 251
Ugarova, T. P., 201
Uhlenbeck, O. C., 126, 341
Uhler, M., 670, 672, 680, 691
Uitto, J., 739, 741-43
Ujihara, M., 669, 671, 678, 679
Uldbjerg, N., 854
Ullman, B., 456
Ulloa-Aguirre, G. H., 668
Ullrey, D. E., 742
Ullrich, A., 267, 271-74, 341, 342, 345, 669, 671, 679, 682
Ulmsten, U., 854
Umagat, H., 701
Umans, J. G., 702
Umezawa, H., 781
Umfleet, R. A., 216
Underbrink-Lyon, K., 120, 122, 151, 152, 154, 584
Underhill, C. B., 858, 859, 864
Unger, L., 397, 771
Unger, R. H., 673
Ungewickell, E., 130
Unwin, P. N. T., 153, 599, 601, 620
Upholt, W. B., 854
Urdea, M., 267, 271-74, 669, 671, 688
Urlaub, G., 464, 475
Urry, D. W., 605, 606, 738
Ushay, H. M., 817, 818
Ushiro, H., 277, 278
Utsunomiya, K., 765
Utter, M. F., 18
Uvnas-Wallensten, K., 673

V

Vaaler, G. L., 359, 361, 362, 369-71, 383
Vagelos, P. R., 377
Vaheri, A., 857, 862, 863, 865
Vaillant, C., 673
Vaishampayan, A., 250
Vale, A. M., 780
Vale, R. A., 103, 273, 275, 277
Vale, W., 666, 669, 671, 673, 677, 690
Valent, B., 627, 629, 630, 633, 653
Valent, B. S., 651, 653
Valentin-Hansen, P., 436
Valenzuela, D., 432
Valle, R. P. C., 806-8
Valtin, H., 688
Valverde, I., 673
VanBogelen, R. A., 755
van Boom, J. H., 127, 128, 138, 794-804, 811, 812, 814, 816-21, 828
Van Charldorp, R., 122, 127, 128, 143
van Cleemput, M., 423
Vancikova, O., 737
Vandecasteele, J. P., 232
Van Delden, V., 734, 863
Vandenbark, G. R., 281, 287
Vandenberghe, A., 120, 129, 135
van den Berghe, H., 864
Vanderhaeghen, J.-J., 669, 703
Vanderkooi, G., 597
van der Marel, G., 794-805, 811, 814, 816, 817, 820,821, 828
van der Marel, G. A., 805, 812, 819, 821
VanderMeide, P. H., 91
van der Plas, J., 127, 128, 138
Van de Sande, J. H., 177, 186, 334, 336, 805, 807, 808, 811, 817-19,821, 822, 824, 827, 828, 830, 831, 837, 838, 840
Vandest, P., 40
Vandonfelaar, M., 319
Van Dorsselaer, V., 760, 762
van Duijnen, P. T., 314
Van Duin, J., 127, 128, 134, 138, 154, 588
Van Etten, R. A., 120, 122, 123, 136, 152, 574, 576-78, 580, 582, 584-87, 590
van Halbeek, H., 626
Van Helden, P. D., 817
Van Knippenberg, P. H., 120, 122, 127, 128, 143, 147
Van Leerdam, E., 127, 128, 143
Van Lier, J. J. C., 815
Van Ness, J., 677
Van Ness, K. P., 724, 726, 727, 734, 735, 742
van Nispen, J. W., 200
VanNoort, J. M., 91
Vannucchi, S., 862-64
van Obberghen, E., 275
van Vliet, A. J., 98
VanWimersma Greidanus, T. B., 696, 698
Van Wyk, J. J., 266, 275, 279, 281, 283
Varadi, A., 215
Vardimon, L., 805, 821
Varmus, H. E., 460, 462
Varner, J. E., 239, 242, 248-50, 644-49
Varshavsky, A., 191, 468
Varshavsky, A. J., 834, 838
Vartio, T., 862
Vasilenko, S. K., 127, 128, 139
Vasiliev, V. D., 144, 145, 148
Vaslet, C. A., 110
Vasmel, H., 809
Vasser, M., 417, 804
Vassilenko, S. K., 127, 128, 153
Vassilopoulou-Sellin, R., 261
Vaughn, V., 755
Vazquez, D., 155
Veda, Y., 697, 699
Veeneman, G., 127, 128, 138
Veis, A., 723, 734
Veldman, G. M., 123, 136
Venetianer, P., 96, 97, 99
Venkatachalam, C. M., 540
Venkatesan, S., 179
Venn, G., 743
Venters, R. A., 235
Ventrella, G., 719
Verbitzki, V., 739
Vergne, J., 804, 805, 809, 811, 826
Verheijen, J. H., 215
Verhoef, J., 699
Verma, D. P. S., 650
Vermes, I., 690
Vermond, A., 215
Vertel, B. M., 854
Vessey, J. C., 651
Vestermark, A., 208
Vevert, J.-P., 760, 762
Vibert, P., 38, 39, 45, 55, 56, 65
Vibert, P. J., 55, 62, 65
Viceps-Madore, D., 750, 764, 765
Viegas, E., 808, 832
Viegas-Pequignot, E., 177, 832
Vignais, P. M., 232
Vigne, R., 127, 128
Vijayan, M., 542
Vijgenboom, E., 91
Vilkas, M., 497
Villafranca, J., 521
Vinograd, J., 345, 576
Virtanen, I., 754, 768
Viti, M., 858, 862, 864, 865
Vitto, L., 461, 464, 466, 469, 470
Viveros, O. H., 702, 703
Vivert, P., 40, 45
Vleggaar, R., 364, 372
Vlek, P. L. G., 237
Vliegenthart, J. F. G., 626
Vocaturo, A., 739
Vogel, K. G., 858, 862
Vogelstein, B., 479
Vogt, P. K., 278
Vogt, V. M., 671
Volpin, M. G., 738
Volwerk, J. J., 604, 605
Vonder Haar, R. A., 775
von Ehrenstein, G., 25
von Figura, K., 859
von Heijne, G., 556, 607, 608, 610
VON HIPPEL, P. H., 389-446; 85, 89, 90, 108, 294, 306, 393, 395, 396, 398-402, 404, 405, 420, 422-24, 431, 432, 434, 446
von Nikolai, H., 626
von Tigerstrom, M., 237, 241
Voragen, A. G. J., 640
Vorlickova, M., 809, 825, 828
Voynow, P., 738
Vuong, R., 631
Vuust, J., 669, 671, 672, 678

W

Wachsbarger, P. R., 62
Wada, H., 358
Wagenaar, E. B., 176, 177
Wagner, E. G. H., 100
Wagner, J., 767, 768
Wagner, P., 45
Wagner, P. D., 45
Wagner, R. E. Jr., 146, 147, 152, 349
WAHL, G. M., 447-91; 456, 458, 461, 464, 466, 469-72
Wahle, E., 98
Wahlefeld, A. W., 383, 384
Wahlstrom, A., 666, 670, 703
Waite, J. H., 719, 721, 736
Waits, V. B., 761
Wakabayashi, T., 38, 39, 45, 62, 65
Walberg, M. W., 120, 122, 123, 136, 152, 574-78, 581, 582, 584-87, 589, 590
Walcott, B., 56
Waley, S. G., 495

Walker, G. A., 232
Walker, J. K., 803
Walker, P., 181, 335, 336
Walker, T. A., 121
Walker-Simmons, M., 656
Wall, J., 201, 203-5
Wall, R., 611, 616, 617, 619
Wallace, B. A., 600, 607
Wallace, D. C., 151, 155, 575, 586
WALLACE, R. B., 323-56; 338, 339, 342, 345, 348, 352, 353, 678
Wallen, P., 215
Waller, T., 778
Wallimann, T., 40, 45, 46
Walmsley, R. M., 185, 186, 829, 840
WALSH, C. T., 493-535; 494-97, 502, 505, 507, 509, 514, 523, 527, 528
Walsh, C. T. Jr., 21
Walter, A., 327
Walter, G., 223, 401, 408, 413
Walter, R., 666, 670
Walters, C., 723, 727-29, 732
Wang, A. C., 396, 398, 815
WANG, A. H.-J., 791-846; 794-805, 810-12, 814, 816, 817, 819-22, 828, 833
Wang, C.-C., 50
Wang, J., 296, 301-4, 306, 314, 315, 319, 805, 815, 825, 837
Wang, J. C., 402, 407, 417, 418, 420, 431, 803, 805, 807, 808, 813, 815, 822, 823, 825, 829, 833
Wang, M., 803
Wang, O. L., 857
Wang, T. P., 20
Wang-Iverson, P., 860
Wangh, L. J., 219
Ward, D. C., 179, 688
Ward, D. F., 426, 437, 438
Ward, K. B., 604
Warden, W. J., 55
Wareing, P. F., 627, 628
Warembourg, M., 693
Wargnies, B., 758
Wargo, P. M., 651
Warme, P. K., 564
Warner, J. R., 109-11
Warner, T. G., 377, 378
Warner, V., 90
Warrant, R. W., 313
Warren, L., 850
Warren, R., 458
Warren, R. A. J., 770
Warren, S. G., 204
Warren, T. G., 676
Wartell, R. M., 401, 805, 810
Washtien, W., 525
Wasserman, H. H., 512
Wasteson, Å., 269, 270, 278, 281, 854-56, 858, 860
Wasylyk, B., 344, 348
Watanabe, F., 652
Watanabe, H., 690, 692
Watanabe, I., 377, 775
Watanabe, K. K., 78-80, 95, 392
Watanabe, M., 782
Watanabe, S., 60, 62, 742, 743
Watanabe, T., 358
Watanabe, Y., 680, 682, 692, 774, 776
Wataya, Y., 525
Waterfield, M. D., 267, 269, 270, 286, 461
Waterman, K., 341
Waterman, M. S., 126
Watson, A., 500
Watson, H. C., 538-40, 560, 565, 610
Watson, J. D., 178, 295, 296, 793, 817
Watson, R. M., 345
Watson, S. J., 672, 697, 699, 702
Watt, G. D., 241
Watt, K. W. K., 196, 198, 203, 206, 214, 222
Waxman, D., 514
Weatherford, D. W., 541
Weaver, D. D., 741
Weaver, L. H., 540, 541
Weber, A., 52
Weber, E., 539, 540, 696, 703
Weber, H., 825
Weber, I. T., 306-8, 310-12
Weber, K., 313
Weber, M. K., 470
Weber, M. M., 41
Weber, P. C., 559
Weeds, A. G., 45, 47, 49, 62
Wehrenberg, W. B., 669-701
Wei, C. F., 805, 825
Weidner, H., 146
Weimer, E., 177, 807, 808, 831
Weinberg, R. A., 461
Weiner, A. M., 182, 183
Weiner, P., 815
Weinman, S. A., 275
Weinstein, I. B., 280, 281, 817, 818
Weinstein, J. N., 604
Weinstein, R., 266
Weir, G. C., 673
Weisblum, B., 151, 155
Weisbrod, S., 689
Weisel, J. W., 204, 219
Weiss, H., 599, 601
Weiss, R., 517
Weiss, R. M., 565, 607-11
Weiss, S., 391
Weissbach, H., 26, 27, 81, 84, 87
Weissbach, H. J., 438
Weiss-Brummer, B., 588
Weissman, C., 152, 825
Weissman, L., 603
Weissman, N., 738
Weissman, R. M., 769
Weissman, S. M., 341
Weith, H. L., 669, 671, 678
Wejksnora, P. J., 109, 111
Welch, J. W., 454, 456, 471
Welfle, H., 120, 129, 135, 146
Welinder, K. G., 650
Wellauer, P. K., 450
Wells, I. C., 352
Wells, J. A., 41
Wells, R. D., 338, 401, 406, 805, 810, 817-20, 822, 825, 827, 828, 839
Wells, R. S., 740
Welsh, E. J., 862
Welsh, J., 177
Wen, L. F., 701
Wendell, P. L., 539, 542
Wendland, M. K., 371
Werer, G., 864
Werer, J., 864
Werkman, C. H., 18
Werner, E., 241
Werringloer, J., 518
Wertheimer, S. J., 755
Wertz, D. H., 562
Wesley, R. D., 183
West, C. A., 655
West, S. S., 865
Westall, F. C., 266
Westerfeld, W. W., 248
Westerink, H., 821
Westermark, B., 266, 269, 270, 275, 278, 281, 854, 858
Westkamper, R., 497
Wetlaufer, D. B., 557, 568
Wetzel, R., 41, 336
Weygand-Durasevic, I., 773
Whalen, R. G., 54
Wheaton, V., 120, 123, 125, 129, 130, 133-35, 157
Wheeler, C., 514
Wheeler, D. M. S., 506
Wherland, S., 241
Whitaker, A. N., 214
White, A., 266
White, D. A., 377
White, E. H., 497
White, M. J. D., 176, 177, 189
White, R. H., 248
White, W. C., 471
Whitehead, A. S., 340
Whitfeld, P. L., 680
Whitfield, J. F., 769
Whitlock, J. P. Jr., 459

Whitmore, F. W., 635, 645, 649
Whitney, P. A., 753
Whittle, N., 267, 269, 270, 286, 461
Whyte, J. N. C., 642
Whyte, M. P., 742
Wiberg, J. S., 90
Wickner, R. B., 374, 384, 684, 758, 759, 772
Wickner, W. T., 359, 377-79, 602
Wickstrom, E., 152
Wickström, P. M., 78-80
Widom, J., 771
Wiedemann, H., 734
Wiedner, H., 41
Wiegand, G., 539, 540
Wiegand, L., 778
Wife, R. C., 769
Wiggs, J., 390, 40?, 422, 427
Wiggs, J. L., 406
Wight, T. N., 854, 855
Wightman, F., 627, 628
Wigler, M., 464
Wigley, C. B., 461
Wigmore, D. J., 834, 838
Wilchek, M., 155, 495
Wilcox, G., 312
Wilcox, W., 607-9
Wilczek, J., 769, 855
Wild, J. R., 436
Wilder, B. M., 633
Wilkie, K. C. B., 634
Wilkinson, J. K., 111
Wille, G., 821
Willhite, M., 863
Williams, B., 336
Williams, C. J., 740
Williams, D. E., 98, 109
Williams, R. C., 201-3, 206, 207, 396, 401, 408, 431
Williams, R. J. P., 237, 238, 241, 245, 249
Williams, R. O., 177
Williams, T. W., 27
Williams-Ashman, H. G., 373, 375-77, 750, 759, 762, 768, 776, 777, 781
Williamson, J. M., 359, 379, 384
Williamson, J. R., 743
Wilner, G. D., 201, 212
Wilson, C. B., 769
Wilson, H. R., 316
Wilson, J., 750
Wilson, J. M., 756
Wilson, M. G. A., 65
Wilson, P. W., 236, 240, 242
Wilson, R. H., 456
Wilson, R. W., 771
Wilson, S. D., 699
Wilson, S. P., 703
Wilter, A., 699
Wiman, B., 215
Wind, A., 669, 671, 672, 678
Windass, J. D., 336
Wing, R., 801
Wing, R. M., 803
Wingerup, L., 854
Wingfield, P., 599, 601
Winkelman, D. A., 40
Winkelman, L., 56
Winkfein, R. J., 805, 808, 824, 830
Winkler, M. E., 422, 426
Winnacker, E. L., 328, 333
Winter, G., 342
Winter, R. B., 396, 398-400, 404, 405, 431
Winterbourne, D. J., 863-65
Winther, M. D., 750
Wintzerith, M., 327
Wirth, R., 81, 85
Wise, R., 500
Wiseman, J. S., 512, 513, 517
Witt, I., 208
Witt, P. L., 174
Witte, D. N., 278
Wittekind, M., 78
Wittmann, H. G., 77, 120, 151
Wodak, S., 542-44, 566, 567
Wodak, S. J., 561, 566, 568
Woese, C. R., 120-31, 134, 135, 138-41, 144, 152, 156, 157
Wogan, G. N., 817, 818, 839
Wolber, P. K., 600
Wolf, I., 40
Wolfenden, R., 24, 562, 563, 606-8
Wolfenstein-Todel, C., 220
Wolff, D., 702
Wolff, J., 701
Wolfson, J., 450
Wollenzien, P. L., 127, 128, 139, 140, 142, 145
Wolt, T. B., 738, 739, 741
Wong, E. A., 461, 464
Wong, J. F. H., 587
Wong, J. R., 307, 310
Wong, K.-P., 148
Wong, K. Y., 279
Wong-Staal, F., 462, 476, 477, 479
Woo, S. L. C., 353
Wood, P. J., 642
Wood, R. D., 304
Wood, S., 539, 540
Wood, T. M., 642
Wood, W. M., 120
Woodbury, C. P. Jr., 405
Woods, A., 857, 858, 862
Woods, D. E., 340
Woods, K. R., 196, 199, 209
Woods, L. C., 455
Woodward, J. R., 636
Woody, A.-Y. M., 420
Woody, R. W., 420
Wool, I. G., 121-23, 136, 152
Woolard, G. R., 634
Woolford, J. L., 110
Wooten, J. B., 805, 811
Worsley, I. G., 266
Worthington, C. R., 64
Worton, R., 457, 470
Worton, R. G., 470
Wower, I., 148
Woychik, P. P., 396
Wrann, M., 280
Wray, J., 53, 56
Wray, J. S., 55, 56, 65
Wrenn, R. F., 605
Wright, C. L., 520
Wright, C. T., 151, 155, 574-76, 578, 584, 586, 587, 590
Wright, D. A., 456
Wright, J. A., 457
Wright, J. M., 752, 755, 765
Wu, A. M., 431, 432
Wu, C.-W., 390, 392, 400, 401, 412, 413, 415, 430
Wu, F. Y. H., 392, 400, 401, 413, 415
Wu, H. M., 805
Wu, J.-J., 724, 730, 731
Wu, L., 755, 757
Wu, M.-C., 266, 576
Wu, R., 332, 335-38, 341, 422, 423, 425, 431, 438, 454
Wu, V.-Y., 733
Wu, Y. S., 763
Wulff, D., 422-24, 426, 431, 437
Wulff, D. L., 418, 426, 431
Wuthrich, K., 313, 603
Wuu, T. C., 666, 670
Wycpalek, A. F., 763
Wykes, E. J., 328, 335

X

Xavier, A. V., 241

Y

Yagi, K., 40
Yagi, N., 65
Yaginuma, K., 581, 584
Yago, N., 495
Yalow, R. S., 673
Yamada, K. M., 216, 861, 862
Yamada, T., 151
Yamagata, S., 370
Yamaguchi, H., 697, 699
Yamaguchi, M., 40, 41
Yamamoto, I., 249
Yamamoto, K., 40, 67

Yamamoto, M., 80, 82, 87
Yamamoto, R., 635, 636
Yamamoto, T., 689
Yamamuro, T., 725
Yamanoha, B., 760, 763
Yamaoka, T., 638, 651, 652
Yamasaki, Y., 640
Yamashina, I., 854, 855, 864
Yamashita, S., 753
Yamatodami, A., 358
Yamauchi, M., 723, 729, 732
Yamazaki, A., 677
Yamazaki, H., 102
Yamazaki, N., 656, 657
Yanagida, T., 66
Yanagishita, M., 854, 854, 857
Yanaihara, C., 673, 676
Yanaihara, N., 671-73, 676
Yang, D., 566
Yang, H.-L., 98
Yang, H.-Y. T., 693, 702
Yang, S.-S., 233-35, 247
Yankner, B. A., 261, 282, 285
Yanofsky, C., 88, 422, 423, 426, 428, 435
Yansura, D. G., 417
Yao, C. H., 177, 183, 189
Yao, M.-C., 177, 183, 189, 450, 451
Yarbrough, L. R., 401, 415
Yarden, Y., 278, 279, 283, 285
Yariv, J., 649
Yarus, M., 89, 90, 404, 431
Yasamura, Y., 697
Yates, F. E., 690
Yates, J. L., 81-88, 148
Yathindra, N., 813
Yelverton, E., 341, 351
Yeoman, M. M., 648
Yeung, C. W. T., 275
Yeung, C.-Y., 456
Yingling, R. A., 756, 766
Yip, C. C., 275
Ylaovic, M., 738
Yocum, R. R., 311, 312
Yonaka, K., 496, 507
Yoo, O. J., 669, 671, 672, 678
Yoon, M. J., 693
York, J. L., 201
York, W. S., 657
Yoshida, H., 123
Yoshikawa, K., 693
Yoshikawa, M., 651
Yoshimasa, T., 669, 682, 701
You, C. B., 233-35, 247
Youderian, P., 313, 403, 406, 409-11, 414
Young, A. P., 456
Young, B. S., 168, 176, 180, 181
Young, I. G., 120, 122, 123, 136, 152, 574-76, 578, 584, 586, 587, 590
Young, J. R., 177
Young, N. D., 758
Young, P. G., 577, 578
Young, P. R., 364
Young, R. A., 97, 98, 105
Young, W. B., 540
Yount, R. G., 41
Yoza, B. K., 579, 580
Yu, M.-Y. W., 282
Yu, R. K., 626
Yu, S., 220, 221
Yuan, R., 146
Yuki, A., 130, 144
Yukioka, M., 155
Yunis, A. A., 266
Yunis, J. J., 485
Yura, T., 77, 78, 83, 94, 390, 392

Z

Zaccai, G., 600
Zacharias, W., 805, 810, 817-20, 825, 827, 828, 839
Zachau, H., 24
Zagon, I. S., 757, 762
Zagorska, L., 134, 154
Zaha, A., 452
Zak, R., 54
Zakarian, S., 697, 699
Zakharyev, V. M., 121-23, 152
Zakian, V. A., 191
Zakrzewska, K., 815, 838
Zaleske, D. J., 547, 606
Zamir, A., 155
Zanen, J., 620
Zappia, V., 750, 760
Zarling, D. A., 177, 186, 805-8, 811, 817, 818, 822, 824, 825, 828, 830, 831, 837, 840
Zaug, A. J., 150
Zaychikov, E. F., 421
Zengel, J. M., 77, 83, 87, 95, 98, 99, 105
Zero, K., 50
Zero, K. M., 50
Zeuthen, J., 107, 108
Zhu, J., 244
Zick, Y., 278
Zieg, J., 312, 458, 466-68, 470-73, 477, 482, 483, 485
Zillig, W., 401, 408, 413, 422
Zimm, B. H., 177
Zimmer, C., 809, 817, 819, 825, 828
Zimmerman, E. A., 672
Zimmerman, S., 803, 804, 821
Zimmerman, S. B., 803, 804, 821
Zimmermann, R. A., 85, 120, 130, 145-49, 153, 232, 234, 235
Zinn, A., 144
Zirvi, K., 516
Zivkovic, T., 773
Zoller, M. J., 345, 348
Zoppetti, G., 852
Zoski, C. G., 719
Zubay, G., 98, 313
Zuber, H., 666, 671
Zuiderweg, E. R. P., 313
Zuker, M., 125, 126, 129
Zumft, W. G., 232-36
Zurawski, G., 423
Zwieb, C., 120, 125, 129, 139-41, 145, 156, 586
Zyznar, E., 673

SUBJECT INDEX

A

Abelson murine leukemia virus
  tyrosine-specific kinases encoded by, 278
Abortive initiation, 414
Acetate
  equilibrium with ATP in bacteria, 16
Acetic anhydride
  oligonucleotide assembly and, 327
Acetoacetate synthesis
  donor ATP-CoA-acetate reaction for, 20
N-Acetoxyaminofluorene
  Z-DNA and, 839
Acetyl phosphate
  pyruvic acid oxidation and, 15
Acetylation
  polyamine, 778–79
  proopiomelanocortin post-translational modifications and, 697
Acetylcholine receptor
  crystallization of, 598
  membrane-related helices in, 618
Acetylspermidine
  synthesis of, 779
Actin
  MgATP hydrolysis by myosins and, 36
  myosin interaction site with, 42–44
Adenosine diphosphate (ADP)
  platelet aggregation and, 217
Adenosine triphosphate (ATP)
  amino acid activation and, 24
  biosynthesis of macromolecules and, 17
  equilibrium with acetate in bacteria, 16
  glycolysis and fermentation inhibition and, 14
  sulfate activation and, 22
Adenosine triphosphate–Coenzyme A–acetate reaction, 20–21
S-Adenosyl homocysteine lyase inhibition of, 504
S-Adenosylmethionine decarboxylase, 373–77, 758–59
  gene coding for
    E. coli point mutations in, 752
  inhibitors of, 759, 762–63
  pyruvoyl moiety in, 759
  regulation of, 767–68
  turnover time in mammalian cells, 750
Adenosylmethionine decarboxylase mutations
  S. cerevisiae, 753
Adenoviruses
  genome structure of
    Bateman model of, 179
Adrenal medulla
  enkephalin peptides and, 702–3
Adrenocortical tumor cells
  gene amplification and, 460
Adrenocorticotropin hormone
  phosphorylated forms of, 701
Adriamycin
  Z-DNA and, 839
Aflatoxin
  Z-DNA and, 839
Agmatine ureohydrolase
  gene coding for
    E. coli point mutations in, 752
Agrobactin, 781
Alamethicin
  ion-conductive channels in membranes and, 596
  structure of, 600–2
Alanine racemases
  enzyme inactivation and, 494
  inactivation of, 509
L-Alanine transaminase
  inactivation of, 506
Albizziin
  cells resistant to
    gene amplification and, 467
Alcohol dehydrogenase
  autoinactivation and, 524
  inactivation of, 512
Alcohols
  Z-DNA stability and, 819
Aldehyde oxidase
  iron-molybdenum cofactor and, 235–36
Aldol histidine
  collagen cross-linking and, 722
Allyglycine
  neuroconvulsive behavior of, 509–10
Allyisopropyl acetamide
  cytochrome P_{450} inactivation and, 514
Allysine
  collagen cross-linking and, 718, 720–24
Amino acid activation
  ATP and, 24
Amino acid decarboxylases
  pyridoxal-P dependent, 363
Amino acids
  eukaryotic rRNA synthesis stimulation and, 111
  neuroconvulsive behavior of, 509–10
Amino acid sequence analysis of membrane-related proteins, 606–20
Amino acid sequences
  detection of membrane-spanning helices from, 616–17
  histidine decarboxylase, 361–62
  human fibrinogen, 196
  interleukin-2, 271
  membrane protein, 618–20
  membrane-related protein, 597
  neuroendocrine peptide, 666
  platelet-derived growth factor, 269–70
  polyprotein precursor, 678–79
  rho from *E. coli* strain K12, 429
Amino acid starvation
  ribosomal synthesis and, 77
  RNA synthesis inhibition and, 100–1
Aminoacyl-tRNA synthesis
  polyamines and, 773–74
Aminoacyl-tRNA synthetases
  ployamines and, 776
Aminobenztriazole
  cytochrome P_{450} inactivation and, 515
Aminomethyltrioxsalen
  rRNA structure analysis and, 128
Amino oxidases, 780
  suicide substrate for, 510
ß-Aminopropionitrile
  lysyl oxidase inhibition and, 719
Ammonia
  oligonucleotide deblocking and, 329
Ammonium salts
  pyruvic acid amide incubation and, 383

Amoxacillin
ß-lactamase inactivation and, 500
Amphiphilicity
mellitin, 603
Amplified DNA
arrangement of chromosomal, 471–72
cell growth and, 467
chromosomal and extrachromosomal locations of, 469–71
sequence of, 472–73
Anabaena cylindrica
nitrogenase synthesis in molybdenum and, 252
Anemia
difluoromethylornithine and, 760–61
Angiotensin
precursor to
cleavage recognition sites in, 696
Angiotensinogen
precursor of, 674
Anion exchange column chromatography
polynucleotide purification and, 330
Antibiotics
polypeptide
bacterial production of, 28–31
resistance to
rRNA methylation and, 151
Antibodies
anti–Z-DNA, 806–9
Antitermination
ribosomal synthesis regulation and, 109
Antitrypsin deficiency
prenatal diagnosis of, 352–53
Antizymes
ornithine decarboxylase, 765–66
Apiogalacturonan
in primary cell walls of plants, 642
Aplysia spp.
egg-laying hormone precursor gene of, 685–86
Arabinans
in primary cell walls of plants, 642–43
Arabinogalactan proteins
in primary cell walls of plants, 648–49
Arabinogalactans
in primary cell walls of plants, 642–43
Arabinosyl residues
in primary cell walls of plants, 643–44
Arginase
ornithine formation and, 768
Arginine decarboxylase
gene coding for
E. coli point mutations in, 752
Arginine decarboxylase–agmatine ureohydrolase
putrescine formation in *E. coli* and, 755
Arginine vasopressin–neurophysin II gene
structure of, 683
Aromatase
enzyme inactivation and, 494
inactivators of, 519–20
Aryl carbohydrate triazines
glycosidase inactivation and, 502–3
Arylamine acetylation
donor ATP-CoA-acetate reaction for, 20
Arylsulfonyl chloride
oligonucleotide assembly and, 327
Ascaris spp.
tandemly repeated DNA sequences in, 181
Ascorbic acid
extensin insolubility and, 645–46
Asparenomycin A
ß-lactamase inactivation and, 501–2
Aspartate decarboxylase
E. coli, 379–80
L-Aspartate transaminase
inactivation of, 506
Aspartic acid
carbamylation in rat liver extract, 22
Aspartokinase
autoinactivation and, 524
Aspergillus nidulans
molybdenum cofactor biosynthesis in, 246
polyamine biosynthetic pathway and, 754
Aspergillus niger
nitrate-growing
molybdate inhibition in, 248
Aspergillus spp.
molybdate transport in, 238, 240
ATP hydrolysis
termination mechanism and, 430–31
Attenuators
elongation/termination response and, 434–35
Auxin
plant cell enlargement and, 628
6-Azauridine
cells resistant to
gene amplification and, 467
Azotobacter spp.
molybdenum uptake in, 239
Azotobacter vinelandii
growth on dinitrogen
molybdenum and, 231
molybdenum cofactor biosynthesis in, 246
molybdenum storage in, 241–43
nitrogenase gene expression in, 251

B

Bacillus brevis
tyrocidin and gramicidin isolated from, 16
Bacillus polymyxa
component I of
iron-molybdenum cofactor and, 233
Bacillus subtilis
ribosomal biosynthesis in, 77
rRNA synthesis inhibition in, 100
sigma factors in, 391
Bacillus subtilis RNA polymerase
promoter specificity of
sigma factor and, 418
Bacteria
polyamine acetylation in, 779
Bacteriochlorophyll protein
protein-lipid interactions and, 604
Bacteriophage DNA
synthetic-oligonucleotide mutagenesis on, 344–47
Bacteriophage fd
synthetic DNA–mediated site-directed mutagenesis and, 344–45
Bacteriophage lambda
Q protein of, 438
transcriptional regulation in, 436–38
Bacteriophage lambda Cro
DNA-binding, 294–99
Bacteriophage lambda Cro-operator complex, 295–99
Bacteriophage lambda DNA
E. coli RNA polymerase pausing sites on, 423
Bacteriophage lambda repressor
DNA-binding, 299–306
Bacteriophage lambda transcripts

rho-dependent termination in, 431–32
Bacteriophage R17
polyamines in, 773
Bacteriophages
polyamines in, 770
Bacteriophage T7 DNA
rapid reaction-photocross-linking of RNA polymerase to, 400
Bacteriophage T7 transcripts
in vivo elongation rate of, 426
Bacteriorhodopsin
amino acid sequence of, 618–19
crystallization of, 597–98
diffraction studies of, 599–600
hydrophobic moment plot and, 612, 614–15
membrane-related helices in, 618
membrane-spanning segments in, 617
three-dimensional structure of, 596
Basement membranes
collagen cross-linking and, 733–34
heparan sulfate proteoglycans in, 855
B-cell growth factor, 266
Benzenesulfonic acid
oligonucleotide assembly and, 327–28
Benzyl chloropyrone
chymotrypsin inactivation and, 497
Benzylcyclopropylamine
cytochrome P_{450} inactivation and, 516–17
Biosynthetic isoenzymes
cytochrome P_{450} inactivation and, 518–20
Bleomycin, 781
Borohydride
S-adenosylmethionine decarboxylase inactivation and, 374
aspartate decarboxylase inhibition and, 379
pyruvic acid amide conversion and, 383
5-Bromomethylene-phenyl-tetrafuranone
chymotrypsin inactivation and, 498
Buschke-Ollendorff syndrome
cross-linking defects in, 742
Buthionine sulfoximine
enzyme inhibition and, 531
Butyryl CoA dehydrogenase
carbanionic mechanism in, 511

C

Cadaverine
formation of
E. coli mutant strains and, 755
Cadmium
cells resistant to
gene amplification and, 467
metallothionein gene expression and, 458
Caenorhabditis elegans
centromere cloning in, 168
unc-54 myosin heavy chain gene of, 48
Caerulein
precursor of, 671
Calcitonin/calcitonin gene-related peptide gene
RNA processing regulation of, 693–96
structure of, 683–84
Calcium
fibrinogen structure and, 199–200
Caldopentamine, 781
Canavalmine, 781
Cancer
polyamines and, 782
Cancer chemotherapy
difluoromethylornithine and, 761
Carbamyl phosphate
aspartic acid carbamylation and, 22
Carbapenemes
ß-lactamase inactivation and, 499
Carbonyl reagents
S-adenosylmethionine decarboxylase inactivation and, 374
Carcinogens
T antigen–dependent DNA replication and, 468–69
Z-DNA and, 838–39
Cartilage
chondroitin sulfate proteoglycans in, 854
Cartilage-derived growth factor, 266
Casein
production of
polyamines and, 769
serine phosphate in, 27–28
Catch muscle
thick filaments of, 56–57
Cell division
amplified DNA and, 467
Cellulose
in plant cell walls, 630–31
Centromere-binding proteins, 172–73
Centromeres, 164–75
cloned
deletion analysis of, 171–72
meiotic behavior of, 168–69
sequence comparison of, 170–71
cloning yeast, 165–68
spindle attachments of, 174–75
yeast
chromatin structure of, 172
Cephalosporinases
suicide substrate for, 502
Cetus spp.
Z-DNA in, 832
Chironomus spp.
polytene chromosomes of
staining of, 176–77
Z-DNA in, 830–31
Chlamydomonas reinhardii
chloroplast r-protein coding in, 111
Chlamydomonas spp.
centromere cloning in, 168
Chloramphenicol
mitochondrial protein synthesis and, 586
nitrogen fixation and, 252
peptidyl transferase function and, 155
resistance to
rRNA gene point mutations and, 151
rRNA overproduction and, 105
D-Chloroalanine
enzyme inactivation and, 509
p-Chlorophenyllactone
chymotrypsin inactivation and, 497
Chloroplasts
ribosomal synthesis in, 111
Cholecystokinin
carboxy-terminal amidation and, 696
percursors to
cleavage recognition sites in, 696
processing of, 704
Chondrocyte growth factor, 266
Chondroitin sulfate proteoglycans
interactions with hyaluronate, 861
structures of, 854
Chondroitin sulfates
linked to serine residues in core proteins, 850
polymer modification in, 851–52
Chondrosarcoma, 23
Chorion genes

amplification in *Drosophila* spp., 451–52
Chromatin
ornithine decarboxylase binding to, 758
yeast centromeric, 172
Z-DNA and, 838
Chromosomes
artificial, 190–91
dicentric
behavior of, 169–70
eukaryotic
end replication in, 178–79
polytene
staining of, 176–77
Z-DNA in, 830–32
Chromosome segregation
control in meiosis and mitosis centromeres and, 164
Chromosome walking
yeast centromere cloning by, 165–66
Chymotrypsin
isatoic anhydride and, 496
suicide substrate for, 497–98
Circular dichroism
Z-DNA and, 809–10
Citrate lyase
inactivation of, 527–27
Citrate synthesis
coenzyme A and, 20
donor ATP-CoA-Acetate reaction for, 20
Citrulline
phosphorolysis of, 21–22
Clavulanate
ß-lactamase inactivation and, 500
as suicide substrate, 496
Cloning
of oligodeoxyribonucleotides, 334–36
of ornithine decarboxylase gene, 755
of synthetic DNA, 333–35
Clostridium pasteurianum
component I of
iron-molybdenum cofactor and, 233
molybdate transport in, 240
molybdenum storage in, 241–43
molybdenum uptake in, 238–39
nitrogenase gene expression in, 251
Clostridium perfringens
histidine decarboxylase of, 372
Clostridium sticklandii
proline reductase of, 380–83, 759
Clostridium thermoaceticum
formate dehydrogenase of tungsten and, 248–49
Coccidiosis
difluoromethylornithine and, 761
Coenzyme A, 18–21
chemical structure of, 20–21
Coenzyme A biosynthesis
aspartate decarboxylase and, 380
Collagen
histidine residues in, 732
interactions with proteoglycans, 861–62
platelet aggregation and, 217
Collagen cross-linking, 720–36
allysine and hydroxyallysine pathways in, 720–24
alternative pathways in, 734–36
analysis of, 734
basement membranes in, 733–34
disorders related to, 740–43
hydroxypyridinium residues in, 724–29
lysyl oxidase and, 719–20
molecular sites of, 730–33
Colony-stimulating factors, 266
Compactin
cells resistant to
gene amplification and, 467
Computer analysis
rRNA structure and, 126
Connectin
lysyl oxidase-mediated cross-links in, 720
Copper
cells resistant to
gene amplification and, 467
Corticotropin-like intermediate lobe peptide
phosphorylated forms of, 701
Corticotropin-releasing factor
proopiomelanocortin peptide secretion and, 690
Corticotropin-releasing factor gene
structure of, 682
p-Coumaric acid
in primary cell walls of plants, 635
Coumaroylagmatine, 781
Creatine kinase
autoinactivation and, 524
Creatine phosphate
muscle contraction and, 5, 7–8
Cross-linking
see specific type
Cutis laxa
inhibited collagen cross-linking and, 718–19
lysyl oxidase activity and, 741
Cyanide
S-adenosylmethionine decarboxylase inactivation and, 374
Cyanobacteria
heterocysts in
molybdenum starvation and, 252
Cyanoborohydride
S-adenosylmethionine decarboxylase inactivation and, 375
pyruvic acid amide incubation and, 383
pyruvic acid incubation and, 383
Cyanogen bromide
fibrinogen fragments and, 196, 199
Cyclic AMP
polyamine deprivation and, 769
Cyclophexylamine
spermidine synthase inhibition and, 763
Cyclopropanone hydrate
horseradish peroxidase inactivation and, 512–13
Cytochrome P_{450}
suicide substrates for, 513–20
Cytokinins
plant cell enlargement and, 628
Cytosine methylation
Z-DNA stability and, 819–21

D

Daunomycin
Z-DNA and, 839
Decarboxylases
pyridoxal 5'-phosphate and, 357–58
Defibrination
fibrinogen biosynthesis and, 218–19
Dehydrogenases
suicide substrates for, 510–13
Deletion analysis
cloned centromeres and, 171–72
Deletion mutants
RNA polymerase-promoter interactions and, 411
Deletion mutations
E. coli polyamine, 752
2'-Deoxyadenosine
S-adenosyl homocysteine lyase inhibition and, 504
Deoxycytidine
bonded to deoxyguanosine, 801–2

3-Deoxy-manno-octulosonic acid
In rhamnogalacturonan II, 640–41
Deoxyribonucleotide metabolism
phage T4 gene product synthesis and, 90
Descemet's membrane
collagen cross-links in, 733
Desmosine
cross-linking in elastin and, 718
Desulfovibrio gigas
molybdate uptake by, 240–41
Detritylation
oligonucleotide assembly and, 327–28
Dexamethasone
fibrinogen biosynthesis and, 219
proopiomelanocortin mRNA activity and, 691
Diabetes
cross-linking defects and, 743
1,3-Diaminopropane, 781
Dicots
cell walls of
xyloglucans in, 631–33
primary cell walls of
xylans in, 634–35
Dictyostelium spp.
extrachromosomal rDNA of, 183
tandemly repeated DNA sequences in, 182
Dicyclyhexylamine
spermidine synthase inhibition and, 763
Diffraction studies
of membrane-related proteins, 597–606
Diffusion-controlled reactions
polymerase with promoter, 393–94
Difluoromethylornithine
adenosylmethionine decarboxylase levels and, 767
cancer chemotherapy and, 761
drug resistance and, 762
embryonic development and, 761
ornithine decarboxylase inhibition and, 505, 751, 760–61
ornithine decarboxylase labeling and, 761–62
parasitic infections and, 761
Dihydrofolate reductase gene
amplifications of
increase in frequency of cells with, 468
expression of, 458
1,4-Dihydropyridines
cytochrome P_{450} inactivation and, 515–16
Diisopropyl derivatives
oligonucleotide assembly and, 328
Dimethoxyphenyl nitrosolactam
chymotrypsin inactivation and, 497
4',4'-Dimethoxytrityl
oligonucleotide assembly and, 327–28
N,N-Dimethylaminophosphoramidites
oligonucleotide assembly and, 328
N,N-Dimethylaminopyridine
oligonucleotide assembly and, 327
Dioxygenases
suicide substrates for, 521–22
Diphtheria toxin
amino acid sequence of, 618–20
Divinylbenzene derivatives
oligonucleotide assembly and, 327
DNA
double-stranded
RNA polymerase action on, 408–9
form V, 825–26
methylguanosine residues in
enzyme death in repair of, 529
nonspecific binding of RNA polymerase to, 395–97
polyamine interactions with, 769–72
proteins binding electrostatically to, 397
RNA polymerase bound to, 392
see also Amplified DNA, Synthetic DNA
B-DNA
double-helical conformation of, 792
equilibrium with Z-DNA, 816–21
molecular structure of, 795–803
Z-DNA, 791–841
B-DNA conversion to polyamines and, 771
biological roles of, 832–40
chromosomal
cytological studies of, 830–32
detection of, 803–9
equilibrium with B-DNA, 816–21
formation of
nucleotide sequences favoring, 828–30
molecular structure of, 795–803
negative supercoiling and, 821–26
physicochemical studies of, 809–15
polytene chromosome staining and, 176–77
proteins binding, 826–27
DNA-binding proteins, 293–319
alpha-helical structure in, 310–15
bacteriophage lambda Cro, 294–99
bacteriophage lambda repressor, 299–306
E. coli catabolite gene activator, 306–10
modes of interaction of, 315–16
recognition code and, 316–18
DNA conformation
promoter strength and, 417
DNA genomes
base-pair sequence in
site-specific protein recognition of, 404
DNA gyrase
inhibition of
RNA polymerase elongation rates and, 426
DNA ligase
synthetic DNA cloning by, 333–34
DNA methylation
inhibition of, 526–27
DNA polymerase I
synthetic DNA cloning by, 334–35
DNA replication
disproportionate
gene amplification and, 477–79
DNAse I
site-directed mutagenesis and, 345
DNA sequence analysis
polypeptide growth factors and, 267–74
r-protein promoters and, 78–80
rRNA and, 121
rRNA promoter regions and, 97
rRNA structure and, 124–25
DNA sequences
telomeric, 180–84
DNA supercoiling
promoter strength and, 417, 418

DNA synthesis
r-protein or rRNA genes and, 77
Dopamine agonists
proopiomelanocortin mRNA and, 692
Dopamine ß-hydroxylase
suicide substrates for, 520–21
Dopamine ß-hydroxylase synthesis
nerve growth factor-induced, 283
Drosophila melanogaster
tandemly repeated DNA sequences in, 181
Drosophila spp.
chorion gene amplification in, 451–52
chromosomes of
molecular weight and DNA content of, 177
cloned DNA hybridization in, 168
dicentric chromosome behavior in, 169
ribosomal DNA genes in
changes in abundance of, 454–55
Z-DNA in, 830–31
Drug resistance
difluoromethylornithine and, 762
gene amplification and, 448, 456–57
Dyad symmetry
RNA polymerase pausing and, 423–24
termination efficiency at rho-independent sites and, 427

E

Edeines, 781
Egg-laying hormone
percursor of, 671
Egg-laying hormone precursor gene
structure of, 685–86
Ehlers-Danlos syndrome
cross-linking disorders and, 740–41
inhibited collagen cross-linking and, 718–19
Elastin cross-linking
cell culture synthesis and, 739
disorders related to, 740–43
lysyl oxidase and, 719–20
molecular sites of, 738–39
structures of, 736–37
Electron microscopy
fibrin and, 206–7
fibrinogen structure and, 196, 201–6
membrane proteins and, 598
RNA-RNA cross-links and, 142
rRNA structure and, 127
Z-DNA and, 813
Electron paramagnetic resonance
nitrogenase component I and, 232
Embden-Meyerhof pathway, 13
Embryonic cells
energy metabolism of, 14
Encephalomyocarditis virus
polyamines in, 773
Endocytosis
hyaluronate-receptor interaction and, 859
polypeptide growth factor receptor complexes and, 260
Endoglycanases
in primary cell walls of plants, 650–51
ß-Endorphin
regulation in pituitary, 699–700
Endothelial cell growth factor, 266
Enkephalin-containing peptides, 702–3
Enolase
autoinactivation and, 524
Enzyme inactivators
see Suicide substrates
Enzyme inhibitors
in primary cell walls of plants, 649–51
Enzymes
hydrolytic activity of, 496–503
oxygen-reducing
autoinactivation and, 523–24
pyridoxal-P
inactivators of, 505–10
redox, 510–13
see also specific type
Epidermal growth factor
binding of
monoclonal antibody and, 260
phorbol esters and, 280–81
cDNA sequence of, 271–73
gene amplification and, 468
mitogenesis induction and, 282
precursor to
cleavage recognition sites in, 696
sequencing of, 267
transforming growth factors and, 268–69
Epidermal growth factor receptors
recognitive moieties of, 275–77
tyrosine-specific protein kinase activity of, 277–78
Erythromycin
peptidyl transferase function and, 155
resistance to
rRNA gene point mutations and, 151
rRNA methylation and, 151
Erythropoietin, 266
Escherichia coli
S-adenosylmethionine decarboxylase in, 374–75
adenosylmethionine decarboxylase purification from, 758
agmatine ureohydrolase purification from, 755
aspartate decarboxylase of, 379–80
dicentric plasmids in, 170
DNA-dependent RNA polymerase of, 391–92
genetic map of, 79
molybdenum cofactor biosynthesis in, 246
novel joints in, 472–73
phosphatidylserine decarboxylase of, 377–79
putrescine formation in, 755
ribosomal biosynthesis in regulation of, 77–95
RNase P of, 583
spermidine synthase purification from, 759
synthetic DNA cloning in, 334
transcription in, 412
Escherichia coli 16S rRNA
nucleotide modifications in, 122
Escherichia coli 23S rRNA
nucleotide modifications in, 123
Escherichia coli catabolite gene activator protein
DNA interactions of, 306–10
Escherichia coli gly T gene
amplified region containing, 452
Escherichia coli K12
amino acid sequence of rho from, 429
rRNA gene sets of, 96
Escherichia coli lac operon
amplifications of, 453
Escherichia coli lac repressor
binding to target operator, 396

Escherichia coli mutants
polyamine biosynthetic pathway and, 752–53
Escherichia coli ornithine decarboxylase
suicide substrate for, 505–6
Escherichia coli promoters
RNA polymerase binding to sigma factor and, 414–15
Escherichia coli pyrBI operon
attenuation mechanism for, 436
Escherichia coli RNA polymerase
binding affinities of holoenzyme of, 408
binding to DNA targets, 396
elongation rates of
nusA protein and, 425
elongation reaction of, 422
Escherichia coli–S. cerevisiae plasmid template
synthetic DNA–mediated site-specific mutagenesis on, 347
Escherichia coli tryptophan operon
attenuator sequence of
dyad symmetries in pausing at, 423
elongation modulation and, 434–35
Estradiol-17
fibrinogen biosynthesis and, 219
Ethanol
Z-DNA stability and, 819
Ethidium bromide
site-directed mutagenesis and, 345
Ethylene glycol
Z-DNA stability and, 819
Ethylmethane sulfonate
CAD gene amplification and, 468
Eubacteria
nucleotide modifications in, 122
Eukaryotes
S-adenosylmethionine decarboxylase in, 373
chromosomes of
end replication in, 178–79
gene amplification in, 449–55
proteins binding to Z-DNA, 793
ribosomal synthesis in, 77
regulation of, 109–12
rRNA gene organization in, 111–12
Exoglycosidases
in primary cell walls of plants, 650
Exons
polyprotein genes and, 680–82
Exonuclease III
site-directed mutagenesis and, 345
Extensin
biological function of, 648
in primary cell walls of plants, 644–48
Eye-derived growth factor, 266
protein phosphorylation and, 283

F

Fatty acid synthesis
coenzyme A and, 20
Fermentation
respiratory inhibition of ATP and, 14
Ferulic acid
in primary cell walls of plants, 635
Fibrin
binding plasminogen, 215–16
binding thrombin, 215–16
electron microscopy of, 206–7
fibronectin and, 216
formation of, 206–14
calcium and, 199
light scattering and, 207–8
molecular sieving and, 208–9
polymerization sites in, 209–11
Fibrin I
fibrinopeptide A release and, 213
Fibrin II
fibrinolysis and, 213
Fibrinogen
binding plasminogen, 215–16
chemical model of, 196–98
electron microscopy of, 201–6
fibronectin and, 216
fragments of
generation of, 199
genes for, 219–20
cDNA sequences of, 222–24
human
variants of, 200
platelets and, 217–18
staphylococcal clumping and, 216–17
structure of
calcium and, 199–200
translation, assembly, and modification of, 220–22
Fibrinogen biosynthesis, 218–24
stimulation of, 218–19
Fibrinogen Manchester, 200
Fibrinogen Petoskey, 200
Fibrinolysis, 214–15
Fibrinopeptide A, 200
release of, 206
fibrin I and, 213
Fibrinopeptide B, 206
release of, 208
thrombin-catalyzed fibrin formation and, 211–12
Fibroblast-derived growth factor, 266
Fibroblast growth factor, 266
Fibroblasts
aerobic glycolysis in, 10
Fibronectin
affinity for fibrin and fibrinogen, 216
fibrinogen cross-linked to, 202
interactions with proteoglycans, 861–63
Fluctuation analysis
gene amplification rates and, 467
of PALA resistance, 468
Fluorescence-activated cell sorter
gene amplification rates and, 467
Fluoride
metabolic effects of, 5–6
muscle contraction and, 8
reaction with methemoglobin, 6
Fluoroacetate
selective metabolic processing and, 531–32
Fluoromethemoglobin, 6
Fluorophytosterols
selective toxicity of, 531–32
Formamide
iron-molybdenum cofactor extraction and, 233
Formate dehydrogenase
tungsten and, 248–49
Fragile X syndrome
chromosome stability and, 480
Fructofuranosidases
in plant cell walls, 650
Fructose-6-phosphate
phosphorylation of
inhibition of, 14
Fusidic acid
rRNA overproduction and, 105

G

GABA transaminase
enzyme inactivation and, 494
gabaculine and, 496
Gabaculine
GABA transaminase and, 496
Galactans
in primary cell walls of plants, 642–43

Galactosidases
in plant cell walls, 650
Galactosyl residues
in primary cell walls of plants, 643–44
Gas chromatography
of plant primary cell walls, 626
Gastrin
carboxy-terminal amidation and, 696
precursors to processing of, 704
Gel electrophoresis
polynucleotide purification and, 331–32
RNA-RNA cross-links and, 141–42
Gene amplification, 447–86
dynamics of, 467–69
lower eukaryotic and prokaryotic, 449–55
mammalian, 455–66
mechanisms of, 473–84
tumorigenesis and, 460–61
Gene dosage experiments
r-protein synthesis and, 80–81
Gene expression
feedback regulation of, 89–91
polypeptide growth factors and, 284
regulation of
synthetic genes and, 335–36
tRNA
rRNA operons and, 90–91
see also Polyprotein gene expression
Genes
ribosomal protein
organization of, 78
site-specific mutagenesis and, 343
see also Polyprotein genes, Synthetic genes
Genetic disease
oligonucleotides as probes in detecting, 351–53
Gibberellins
plant cell enlargement and, 628
Glaucoma chattoni
extrachromosomal rDNA of, 183
Glial growth factor, 266
Globins
cloned DNA sequences encoding, 337
Glucagon
precursors to processing of, 704–5
Glucans
in primary cell walls of plants, 635–36
Glucocorticoid hormones
metallothionein gene expression and, 458
proopiomelanocortin gene expression and, 667
proopiomelanocortin mRNA and, 692–93
proopiomelanocortin peptide secretion and, 690
Glucose
resynthesis from lactate, 15
Glucosidases
in plant cell walls, 650
Glutamate decarboxylase
amino acid neuroconvulsive behavior and, 509–10
Glutamine synthetase
autoinactivation and, 524
γ-Glutamyl cyclotransferase, 781
γ-Glutamylputrescine, 781
Glutathionylspermidine, 781
Glyceraldehyde-3-P dehydrogenase
autoinactivation and, 524
Glycolysis
aerobic, 10–11
heat production in muscle and, 7–8
respiratory inhibition of ATP and, 14
Glycolytic cycle
Embden-Meyerhof pathway for, 13
Glycoproteins
in primary cell walls of plants, 644–51
Glycosaminoglycans
cell-surface, 847–65
circulating macromolecules and, 859–60
transformation and, 863–65
extracellular matrix macromolecules and, 860–63
iduronic acid–rich
self-association of, 863
as peripheral membrane components, 858–59
structure, biosynthesis, and classification of, 848–55
sulfated, 851–55
Glycosylation
collagen cross-linking and, 723
Gram-negative organisms
pyridoxal-P–dependent histidine decarboxylases in, 358
Gram-positive organisms
pyruvoyl-dependent histidine decarboxylases in, 358–59
Gramicidin
isolated from *B. brevis*, 16
Gramicidin A
transmembrane channel of, 605–6
Gramicidin S
bacterial production of, 29–30
Guanidospermidine, 781
Guanosine tetraphosphate
r-protein mRNA synthesis inhibition and, 94–95
RNA polymerase and, 100
rRNA synthesis inhibition and, 99–101

H

Haemophilus parainfluenzae
polyamine biosynthetic pathway and, 754
Haloenol lactones
chymotrypsin inactivation and, 498
Haloperidol
proenkephalin gene regulation and, 693
proopiomelanocortin mRNA and, 692
HeLa cell mitochondria
RNA extraction from, 584
Heme proteins
inactivation of, 517
Hemoglobin
amino acid sequence of, 618–19
hydrophobic moment plot and, 612, 614–15
inactivation of, 517
Heparan sulfate
cell-surface binding sites for, 858
growth control and, 864
linked to serine residues in core proteins, 850
polymer modification in, 852–53
Heparan sulfate proteoglycans
membrane-intercalated, 855–57
structures of, 855
Heparin
abortive initiation and, 414
linked to serine residues in core proteins, 850
polymer modification in, 852–53
Heparin proteoglycans
structures of, 855
Hepatic endoplasmic reticulum isoenzymes
cytochrome P_{450} inactivation and, 513–18
Heptane-1,2,3-triol
membrane protein crystallization and, 598

Hexamethylphosphoramide
iron-molybdenum cofactor extraction and, 233
High-performance liquid chromatography
polynucleotide purification and, 330–31
polyprotein precursors and, 674
Histidine
collagen cross-linking and, 722–23
L-Histidine
enzymatic decarboxylation of, 364
Histidine decarboxylases
Clostridium perfringens, 372
Lactobacillus 30a, 360–70
Lactobacillus buchneri, 371–72
Lactobacillus casei, 759
Micrococcus sp. n., 370–71
pyruvoyl-dependent, 358–59
role of, 373
Histidine residues
in collagen, 732
Histidinohydroxymerodesmosine
collagen cross-linking and, 722
HMG-CoA reductase gene
expression of, 458–59
Homocaldopentamine, 781
Homogalacturonans
in primary cell walls of plants, 636–38
phytoalexin elicitation and, 653
sym-Homospermidine, 781
Hormones
eukaryotic rRNA synthesis stimulation and, 111
fibrinogen biosynthesis and, 218–19
Horseradish peroxidase
inactivation of, 512–13
Human growth hormone
synthesis of gene for, 334
Hyaluronate
binding sites for, 858–59
interactions with chondroitin sulfate proteoglycans, 861
Hyaluronic acid biosynthesis, 850–51
α-Hydrazinoornithine
putrescine biosynthesis inhibition and, 762
Hydrogen bonds
protein stability and, 560–61
Hydrolases
in primary cell walls of plants, 650
Hydrophobic moments
of membrane-related protein amino acid sequences, 610–13
Hydrophobicity
of membrane-related protein amino acid sequences, 606–10
protein stability and, 561–62
Hydroxyaldohistidine
collagen cross-linking and, 732
Hydroxyallysine
collagen cross-linking and, 720–24
cross-linking in collagens and, 718
3-Hydroxyanthranilate oxidase
inactivation of, 522
Hydroxylamine
S-adenosylmethionine decarboxylase inactivation and, 374
aspartate decarboxylase inhibition and, 379
Hydroxylsyl pyridinoline
cross-linking in collagens and, 718
Hydroxylysinonorleucine
collagen cross-linking and, 722
Hydroxymerodesmosine
collagen cross-linking and, 722
Hydroxymethyltrimethylpsoralen
rRNA structure analysis and, 128
Hydroxyputrescine, 781
Hydroxypyridinium residues
collagen cross-linking and, 718, 724–29
Hydroxyurea
cells resistant to
gene amplification and, 467
gene amplification and, 468
Hypotrichs
telomeric DNA sequences of, 183
Hypusine
formation of, 780–81

I

Idiopathic scoliosis
cross-linking defects and, 743
Imidazole
histidine decarboxylase inhibition and, 364
Immunoelectron microscopy
of fibrinogen, 203
Immunoglobins
cloned DNA sequences encoding, 337
Immunoprecipitation
proopiomelanocortin mRNA and, 692
Indoleacetic acid
plant cell enlargement and, 628
Insulin
gene amplification and, 468
proinsulin conversion to, 666
Insulinlike growth factor receptors
recognitive moieties of, 275–77
Insulinlike growth factors
recognitive moieties of, 275–77
sequencing of, 267
Insulinlike growth factors I and II, 266
Insulin receptors
affinity of, 275
monoclonal antibodies against, 279
recognitive moieties of, 275–77
tyrosine-specific protein kinase activity of, 278
Intercalating agents
B- and Z-DNA equilibrium and, 819
Interleukin-2
amino acid sequence of, 271
sequencing of, 267
Iodoacetate
muscle contraction and, 8
Iron-molybdenum cofactor
molybdenum cofactor and, 235–36
nitrogenase and, 233–35
synthesis of, 245–48
Isatoic anhydride
chymotrypsin and, 496
Isodesmosine
cross-linking in elastin and, 718
Isodityrosine
extensin insolubility and, 645
Isopropyl thiogalactoside
L11 and L1 mRNA synthesis and, 88

K

Kallikreins
neuroendocrine peptide precursors and, 696
Kasugamycin
initiator tRNA binding to ribosomes and, 152
resistance to
rRNA methylation and, 151
Keratan sulfates

polymer modification in, 853–54
Kethoxal
ribosomal subunit interactions and, 153
Ketoamines
collagen cross-linking and, 726
Klebsiella pneumoniae
component I of iron-molybdenum cofactor and, 233
molybdenum cofactor biosynthesis in, 246–47
molybdenum storage in, 241–43
molybdenum uptake in, 239–41
nitrogenase gene expression in, 251

L

Lactalbumin
production of polyamines and, 769
β-Lactamase
suicide substrates for, 499–502
Lactate
resynthesis of glucose from, 15
Lactate acid amides
pyruvic acid amide conversion to, 383
Lactate dehydrogenase
autoinactivation and, 524
Lactic acid
muscle contraction and, 8
Lactobacillus 30a
histidine decarboxylase of, 360–70
Lactobacillus buchneri
histidine decarboxylase of, 371–72
Lactobacillus casei
histidine decarboxylase from, 759
ornithine decarboxylase purification from, 755
polyamine biosynthetic pathway and, 754
Lactones
chymotrypsin inactivation and, 498
Laminin
interactions with proteoglycans, 862–63
Lathyrus sativus
putrescine biosynthesis in, 758
Leiomyoma
collagen cross-linking and, 732
Lemna gibba
inhibition of flowering of, 658
Leukemia cells
gene amplification and, 470
Leukopenia
difluormethylornithine and, 760–61
Light scattering
fibrin polymers and, 207–8
Z-DNA and, 813
Linear gramicidin
bacterial production of, 29–31
Lipoxygenase
enzyme inactivation and, 494
inactivation of, 521–22
Liquid chromatography
of plant primary cell walls, 626
Lysine decarboxylase
gene coding for
E. coli point mutations in, 752
Lysinoalanine
in bone and dentin collagens, 735
Lysinohistidine
in bone and dentin collagens, 735
Lysinonorleucine
connectin and, 720
Lysyl oxidase
collagen and elastin cross-linking and, 719–20
Lysyl oxidase deficiency disorders, 741
Lysyl pyridinoline
cross-linking in collagens and, 718

M

Macrophage-derived growth factor, 266
Magnesium
S-adenosylmethionine decarboxylase activation and, 374
Maize
dicentric chromosomes in, 187
broken ends of, 188
Malaria
difluoromethylornithine and, 761
Malate dehydrogenase
in primary cell walls of plants, 649
Mammalian cells
ornithine decarboxylase in, 757
polyamine biosynthetic pathway and, 754–55
Mammalian mitochondrial genome
organization of, 574–76
post-transcriptional RNA modification and maturation in, 584–90
primary transcript processing in, 582–84
transcription of, 573–92
initiation, elongation, and termination of, 578–82
mode of, 590–92
transcriptional mapping of, 576–78
Mammals
S-adenosylmethionine decarboxylase in, 376–77
gene amplification in, 455–66
Marfan's syndrome
cross-linking defects in, 741–42
inhibited collagen cross-linking and, 718–19
Mass spectrometry
of plant primary cell walls, 626
α-Mating factor
precursor of, 671
Maxam and Gilbert procedure
oligonucleotide characterization and, 332
Meiosis
chromosome segregation during, 164
telomere-telomere associations during, 176
Melanocyte-stimulating hormone
carboxy-terminal amidation and, 696
Melittin
amino acid sequence of, 618–20
binding to membranes, 596
hydrophobic moment plot and, 612, 614–15
structure of, 602–4
Membrane proteins
amino acid sequence analysis of, 606–20
diffraction studies of, 599–600
Membrane protein structures, 595–621
diffraction studies of, 597–606
Menkes' syndrome
lysyl oxidase activity and, 741
Messenger RNA
cistron regulation and, 76
coding for polyproteins, 687–89
initiation sites of
16S rRNA and, 151–52
mammalian mitochondrial DNA and, 587–88
mouse EGF, 273
rho binding to, 430

r-protein
rRNA binding sites and, 84–86
Messenger RNA degradation
translational inhibition of cistrons and, 86–89
Messenger RNA initiation
nucleoside triphosphates and, 409
Messenger RNA processing
nonribosomal protein gene product synthesis and, 83
Messenger RNA synthesis
r-protein
rates of, 91–94
regulation of, 94–95
Metal shadowing
of fibrinogen preparations, 202
Metallothionein gene
expression of, 458
Methanol
Z-DNA stability and, 819
Methemoglobin
reaction with fluoride, 6
Methionine adenosyltransferase
gene coding for
E. coli genetic map for, 752
Methionine sulfoximine
enzyme inhibition and, 531
Methotrexate
cells resistant to
gene amplification and, 467
chromosome stability in fragile X syndrome and, 480
resistance to
gene amplification and, 448
Methylacetylenic putrescine
putrescine biosynthesis inhibition and, 762
Methylation
post-translational modifications in proopiomelanocortin and, 697
Z-DNA stability and, 819–21
Methylethylketone
iron-molybdenum cofactor isolation and, 234
N-Methylformamide
molybdoenzyme extraction and, 235–36
Methylglyoxal bis(guanylhydrazone)
S-adenosylmethionine decarboxylase inhibition and, 762–63
adenosylmethionine decarboxylase levels and, 767
N-Methylimidazole
oligonucleotide assembly and, 327
Methylornithine
cells resistant to
gene amplification and, 467
α-Methylornithine
drug resistance and, 762
putrescine biosynthesis inhibition and, 762
Micrococcus sp. n.
histidine decarboxylase of, 370–71
Mitochondria
phosphatidylserine conversion in, 377
ribosomal synthesis in, 111
see also Mammalian mitochondrial genome
Mitogens
eukaryotic rRNA synthesis stimulation and, 111
Mitosis
chromosome segregation during, 164
telomere-telomere associations during, 176
Mitotic stabilization
centromere cloning and, 166–68
Molybdenum
nitrogen fixation and, 231
nitrogenase synthesis regulation and, 250–53
storage of, 241–43
uptake and metabolism in cells, 232
uptake of, 237–41
Molybdenum cofactor
iron-molybdenum cofactor and, 235–36
Molybdenum metabolism, 236–50
Monoclonal antibodies
epidermal growth factor and, 260
mammalian ornithine decarboxylase and, 757
polypeptide growth factor internalization and, 285
polypeptide growth factor receptors and, 278–79
Z-DNA and, 793, 806–7
Monocots
cell walls of
xylans in, 634–35
xyloglucans in, 631–33
Monofluoromethylornithine
putrescine biosynthesis inhibition and, 762
Monofluoroputrescine
putrescine biosynthesis inhibition and, 762
Monoxygenases
suicide substrates for, 513–20
Morganella spp.
pyridoxal-P–dependent histidine decarboxylases in, 358
Morpholino derivatives
oligonucleotide assembly and, 328
mRNA
see Messenger RNA
Muscle
phosphate bond energy in, 7–9
see also Striated muscle
Muscle contraction, 5–7
creatine phosphate and, 5, 7–8
Mutagenesis
mediated site-specific
synthetic DNA and, 343–51
synthetic DNA–mediated
increasing efficiency of, 348–50
Mutants
in polyamine biosynthetic pathways, 752–55
synthetic oligonucleotide–generated
selection and detection of, 347–48
Mutational analysis
dyad symmetry and, 423
RNA polymerase-promoter interactions and, 411
Mycophenolic acid
cells resistant to
gene amplification and, 467
Myoglobin
inactivation of, 517
Myosin, 35–68
aggregation properties of, 51–63
force generation and, 63–68
structure of, 36–51
Myosin filaments
disassembly and assembly of, 58–63
structure of, 51–57
Myosin rod, 47–51
physical properties of, 49–51
structure of, 47–49
Myosin subfragment-1, 37–46
actin-binding site of, 42–44
light chains of, 44–46
morphology of, 37–39
rod junction of, 46
substructure of, 39–42

N

Neisseria perflava
polyamine biosynthetic pathway and, 754
Neoplastic disease

ornithine decarboxylase inhibition and, 505
polypeptide growth factors and, 260–61, 286–87
transforming growth factors and, 267
Nerve growth factor, 266
peripheral neuron stimulation by, 282
precursor to cleavage recognition sites in, 696
prepro-cDNA sequence of, 271–73
protein synthesis induction and, 283–84
receptor binding of, 269
sequencing of, 267
Nerve growth factor gene structure of, 682
Nerve growth factor receptors affinity of, 275
binding of, 269
recognitive moieties of, 275–77
Neuroblastoma cells gene amplification and, 460–61
Neuroendocrine peptides amino acid sequencing and, 666
precursors to processing of, 697–705
production of translational and post-translational control of, 696–705
Neurospora crassa molybdenum cofactor biosynthesis in, 246
nitrate reductase mutant of, 235–36
polyamine biosynthetic pathway and, 754
Neurotrophic growth factors, 266
Nitrate reductase iron-molybdenum cofactor and, 235–36
molybdenum metabolism and, 232
3-Nitroalanine enzyme inactivation and, 506
Nitrogenase activation of, 232–36
iron-molybdenum cofactor and, 233–35
molybdenum metabolism and, 232
Nitrogenase synthesis molybdenum and, 250–53
Nitrogen fixation molybdenum and, 231
Nitrogen-fixing bacteria molybdate transport in, 238, 240–41
Nitrogen mustards RNA-RNA cross-links and, 139
Norspermidine, 781
Novobiocin RNA polymerase elongation rates and, 426
Nuclear magnetic resonance of plant primary cell walls, 626
rRNA structure and, 127
Z-DNA and, 811–13
Nuclear Overhauser Effect rRNA structure analysis and, 128
Z-DNA and, 812
Nucleic acid–protein complexes protein synthesis regulation in, 89
Nucleic acid sequence analysis of polypeptide growth factors, 270–71
Nucleic acid sequences at rho-dependent termination sites, 431
Nucleoside triphosphates abortive initiation and, 414
binding to RNA polymerase, 413
mRNA initiation and, 409
Nucleotides ribosomal RNA, 120
Nucleotide sequences at novel joints, 473
promoter strength and, 417
Z-DNA formation and, 828–30

O

Octylglucopyranoside membrane protein crystallization and, 597–98
Olefins cytochrome P_{450} inactivation and, 513–14
Oligodeoxyribonucleotides chemical synthesis and cloning of, 334–36
Oligonucleotides assembly on solid support, 325–28
characterization of, 332
deblocking of fully protected, 328–30
as hybridization probes, 337–40
mutants generated by selection and detection of, 347–48
as probes for genetic disease detection, 351–53
single-stranded rRNA probes and, 138
solid-phase synthesis of, 325
as specific primers, 340–42
synthetic mediated mutagenesis and, 344
Olivanate β-lactamase inactivation and, 500–1
Oncogenes gene amplification and, 460–61
Oncogenesis polypeptide growth factors and, 284
Oogenesis ribosomal DNA amplification during, 449–50
Opioid peptide genes structure of, 680–82
Ornithine decarboxylase cloning of gene for, 755
control by antizymes, 765–66
control by post-translational modification, 766–67
enzyme inactivation and, 494
gene amplification and, 767
gene coding for *E. coli* point mutations in, 752
inhibitors of, 760–62
in mammalian cells, 757
in plants 757–58
in *P. polycephalum*, 756
protein kinases and, 777
putrescine formation in *E. coli* and, 755
ribosomal RNA synthesis and, 772
in *Saccharomyces* spp., 755–56
specific labeling of, 761–62
suicide substrates for, 505–6
turnover in mammalian tissues, 750, 763–65
Ornithine decarboxylase mutations *S. cerevisiae*, 753
Ornithine decarboxylase synthesis nerve growth factor–induced, 283
Osteosarcoma-derived growth factor, 266
Oxaloacetate citrate synthesis from coenzyme A and, 20
Oxidases suicide substrates for, 510–13
Oxygen metabolites

enzyme inactivation and, 523–24
Oxytricha spp.
macronuclear telomere formation in, 189
telomeric DNA sequences of, 183

P

PALA
cells resistant to
gene amplification and, 467
Pantetheine
coenzyme A and, 19–20
Pantothenic acid
pantoic acid conversion to, 380
Parabactin, 781
Paramecium spp.
extrachromosomal rDNA of, 183
Paramomycin
resistance to
rRNA gene point mutations and, 151
Paramyosin
interactions along myosin rod, 57
Parascaris spp.
latent telomeres in, 189
Parvoviruses
genome structure of
Bateman model of, 179
Pasteur effect, 14–15
Pasteurella tularensis
polyamine biosynthetic pathway and, 754
Pectic enzymes
phytotoxicity of, 657
Pectic polysaccharides
proteinase inhibitor–inducing factor activity and, 656
Pectinases
in primary cell walls of plants, 651
Pectinesterases
in primary cell walls of plants, 651
Penicillanic acid
β-lactamase inactivation and, 502
Penicillanic acid sulfone
β-lactamase inactivation and, 499
Penicillinases
enzyme inactivation and, 494
Penicillium spp.
molybdate transport in, 240
Peptidyl transferase
peptide bond formation catalysis and, 155–56
Peroxidases
in primary cell walls of plants, 649–50
Phage T4 gene 32 system
autogenous translational regulation in, 89–90
Phage T4 rII system
translation reinitiation in, 88
Phenylhyrazine
S-adenosylmethionine decarboxylase inactivation and, 374
aspartate decarboxylase inhibition and, 379
heme protein inactivation and, 517
Phenylobacterium immobilis
nonheme iron dioxygenase of, 524
Pheochromocytoma
enkephalin-containing peptide in, 703
Philadelphia chromosome
gene amplification and, 470
Phorbol esters
epidermal growth factor binding and, 280–81
gene amplification and, 468
Phosphagen, 5
Phosphatases
in primary cell walls of plants, 650
Phosphate bond energy
muscle and, 7–9
Phosphatidylserine decarboxylase
E. coli, 377–79
Phosphite-triester method
oligonucleotide assembly and, 328
phosphotriester method and, 332–33
Phosphoglycerate kinase
autoinactivation and, 524
Phospholipase A2
three-dimensional structure of, 604–5
Phosphorochloridites
oligonucleotide assembly and, 328
Phosphorylation, 21–28
ornithine decarboxylase activity in vitro and, 766
polypeptide growth factor-induced, 282
post-translational modifications in proopiomelanocortin and, 697
Phosphotriester method
oligonucleotide assembly and, 326–28
phosphite-triester method and, 332–33
Phosvitin
serine phosphate in, 27–28
Photosynthetic reaction center
diffraction studies of, 600
Physarum polycephalum
ornithine decarboxylase activity in, 756
control of, 766
Physarum spp.
extrachromosomal rDNA of, 183
tandemly repeated DNA sequences in, 182
Phytoalexins
plant cell-wall fragments and, 653–56
Pituitary
proopiomelanocortin peptide secretion from, 690–91
proopiomelanocortin processing in, 697–702
Pituitary fibroblast growth factor, 266
Plant cell walls
fragments of
biological activities of, 653–58
primary, 625–58
function of, 627–30
structures of, 630–52
Plants
putrescine biosynthesis in, 757–58
Plasma membranes
heparan sulfate proteoglycans in, 855
polypeptide growth factor interactions with, 282
Plasmid DNA templates
synthetic-oligonucleotide mutagenesis on, 344–47
Plasmids
autonomous replication in *C. elegans*, 168
dicentric chromosomes and, 169–70
Plasmin
fibrinogen digestion of
calcium and, 200
fibrinogen fragments and, 196, 199
Plasminogen
fibrinogen and fibrin binding to, 215–16
Plasminogen activators
cellular growth and, 264–65
Platelet-derived growth factor, 266
amino acid sequence of, 269–70
protein phosphorylation and, 283

protein synthesis induction and, 284
sequencing of, 267
viral oncogene protein and, 261
Platelet-derived growth factor receptors
recognitive moieties of, 275–77
tyrosine-specific protein kinase activity of, 278
Platelets
fibrinogen and, 217–18
Plectonema boryanum
nitrogenase synthesis in molybdenum and, 252
Point mutations
E. coli polyamine, 752
genetic disease and, 352
Polyamine biosynthesis
S-adenosylmethionine decarboxylase and, 377
Polyamine oxidase, 779–80
Polyamines, 749–82
acetylated, 778–79
biosynthesis of
inhibitors of, 760–63
regulation of, 763–68
biosynthetic pathways of
cloning of genes in, 755
enzymes in, 755–60
mutants in, 752–55
cancer and, 782
derivatives and analogs of, 781
functions of, 768–77
interactions with DNA, 769–72
interactions with RNA, 772–73
metabolism of, 777–81
physicochemical studies on, 782
protein biosynthesis and, 773–76
protein kinases and, 776–77
Polyclonal antibodies
mammalian ornithine decarboxylase and, 757
Z-DNA and, 793, 806–7
Polydimethylacrylamide derivatives
oligonucleotide assembly and, 327
Polymerization
bacterial antibiotic production and, 28–31
Polymers
plant primary cell wall, 630–52
Polynucleotides
purification of, 330–32
Polyoma DNA
T antigen–dependent replication of
carcinogens and, 468–69
Polypeptide antibiotics
bacterial production of, 28–31
Polypeptide biosynthesis
polyamines and, 774
Polypeptide chains
elongation of, 25
hydrophobic moments and, 610
initiation and elongation in vivo
polyamines and, 776
Polypeptide growth factor receptors, 274–81
monoclonal antibodies against, 278–79
tyrosine-specific protein kinase activity of, 277–78
Polypeptide growth factors, 259–88
heterologous ligand effects and, 279–81
internalization of, 284–86
molecular characterization of, 267–74
molecular responses of, 281–84
neoplastic disease and, 286–87
normal growth and, 286–87
nucleic acid sequence analysis of, 270–71
Polyprotein gene expression, 686–96
regulation of
transcriptional and post-transcriptional, 686–96
Polyprotein genes
structure of, 679–86
transcriptionally active
characteristics of, 689–90
regulation of expression of, 690–96
Polyproteins
classification of, 671–72
mRNA coding for
detection of, 687–89
precursors of, 669–73
characterization of, 673–79
Polysaccharides
in primary cell walls of plants, 651–52
Porin
crystallization of, 597–98
three-dimensional membrane-protein crystals of, 596
Preangiotensinogen
amino acid sequence of, 678–79
Preprobradykinin
cDNA clones coding for, 678
Preprocalcitonin
mRNA coding for
translation products of, 676
PreproCRF
amino acid sequence of, 678–79
Preprodynorphin, 671
amino acid sequence of, 678
PreproEGF
amino acid sequence of, 678–79
Preproenkephalin, 671
amino acid sequence of, 678
cDNA clones coding for, 678
mRNA coding for
translation products of, 676
Preprogastrin
cDNA clones coding for, 678
Preproglucagon, 671–72
cDNA clones coding for, 678
mRNA coding for
translation products of, 676
Preproglucagon gene
structure of, 682–83
PreproNGF
amino acid sequence of, 678–79
Preprooxytocin
mRNA coding for
translation products of, 676
Preprosomatostatin
mRNA coding for
translation products of, 676
Preprovasointestinal peptide, 672
ProAVP
single arg residue cleavage in, 703
Procholecystokinin
single arg residue cleavage in, 703
Prodynorphin
cleavage recognition sites in, 696
single arg residue cleavage in, 703
Proenkephalin
cleavage recognition sites in, 696
precursor of, 674
processing of, 702–3
Proenkephalin gene
methylation pattern of, 689–90
regulation of, 693
structure of, 680–82
Proglucagon
precursor of, 674
Progrowth hormone-releasing factor
single arg residue cleavage in, 703
Prohistidine decarboxylase

activation of, 365–70
Proinsulin
conversion to insulin, 666
Prokaryotes
S-adenosylmethionine decarboxylase in, 373
gene amplification in, 449–55
multiple transcriptional regulatory pathways in, 434–35
Proline reductase
C. sticklandii, 380–83, 759
Proopiomelanocortin
discovery of, 668
glucocorticoids and, 667
mRNA coding for
translation products of, 676
phosphorylated forms of, 701
post-translational modifications in, 697
precursor of, 674
processing in pituitary, 697–702
Proopiomelanocortin gene
adrenal regulation of, 691–92
differential regulation of, 692–93
structure of, 680–82
Proopiomelanocortin peptides
secretion from pituitary, 690–91
Prooxytocin
precursor of, 674
Propargylglycine
neuroconvulsive behavior of, 509–10
Prosomatostatin
precursor of, 674
Prostaglandin cyclogenase
enzyme inactivation and, 494
Prostaglandin cyclooxygenase
autoinactivation and, 523–24
inactivation of, 521–22
Proteases
in primary cell walls of plants, 650
Proteinase inhibitor inducing factor
plant cell walls and, 656
Protein effectors
binding near promoter, 417–18
Protein kinase activity
tyrosine-specific
polypeptide growth factors and, 277–78
Protein kinases
ornithine decarboxylase activity in vitro and, 766
polyamines and, 776–77
Protein-lipid interactions
bacteriochlorophyll protein and, 604
Protein–nucleic acid interactions
electrostatic, 397
recognition mechanisms in, 405
Proteins
binding to Z-DNA, 826–27
centromere-binding, 172–73
chain topology in, 557–59
close packing in, 544–46
domains in, 567–68
packing of helices and pleated sheets in, 546–57
Protein secretory apparatus
r-protein or rRNA genes and, 77
Protein stability, 560–67
buried and accessible surfaces and, 564–66
hydrogen bonds and, 560–61
hydrophobicity and, 561–62
residue surfaces and, 562–64
secondary-structure surfaces and, 564
Protein structure, 537–69
classification of, 559–60
helices and, 539–40
hydrogen bonds and, 539
pleated sheets and, 540–42
residue packing and, 544–46
side chains and, 542–44
see also Membrane protein structure
Protein synthesis, 23–25
amino acyl tRNA and, 25
polyamines and, 377, 773–76
ribosomal
regulation of, 77–95
see also Ribosomal protein synthesis
Proteoglycans
extracellular matrix macromolecules and, 860–63
as integral membrane components, 855–58
interactions with collagen, 861–62
interactions with fibronectin, 862–63
as peripheral membrane components, 858–59
structure, biosynthesis, and classification of, 848–55
Protozoa
chromosomal DNA ends of, 177
Pseudogenes
proopiomelanocortin, 680–82
Pseudouridines
in *E. coli* 23S rRNA, 123
Psoralens
base-paired rRNA and, 139
RNA-RNA cross-links and, 145
rRNA structure analysis and, 128
Psoriasis
ornithine decarboxylase inhibition and, 505
Purine nucleoside triphosphates
E. coli transcription and, 412
Purines
rotation around glycosyl bonds, 801
syn conformation for, 792
Purple membrane protein
see Bacteriorhodopsin
Putrescine
adenosylmethionine decarboxylase and, 768
S-adenosylmethionine decarboxylase inactivation and, 375
biosynthetic pathway for, 750–51
formation in *E. coli*, 755
Putrescine aminopropyltransferase
gene coding for
E. coli, 752
Putrescine aminopropyltransferase mutations
S. cerevisiae, 753–54
Putrescine biosynthesis
inhibitors of, 762
in plants, 757–58
Putrescine cycle, 777–80
Pyridine
histidine decarboxylase inhibition and, 364
Pyridoxal-P enzymes
inactivators of, 505–10
Pyridoxal 5'-phosphate
decarboxylases and, 357–58
Pyrimidines
rotation around glycosyl bonds, 801
Pyrimidine substrates
5,6-olefinic link of
enzyme catalyzing transformation at, 527–29
Pyruvate
protein-bound
precursor of, 382
Pyruvate kinase
autoinactivation and, 524
Pyruvic acid amides
reactions of, 383–84
Pyruvic acid oxidation
acetyl phosphate and, 15
Pyruvoyl enzymes, 357–84
see also specific enzyme
Pyruvoylphenylalanine phenylhydrazone
isolation of, 361

R

Raman spectroscopy
  Z-DNA and, 810–11
Receptors
  polypeptide growth factor, 274–81
Recombinant DNA
  E. coli r-protein gene locations and, 78
  r-protein gene cloning and, 110
Recombinant DNA technology
  bioactive peptide precursors and, 676–79
  neuroendocrine peptide gene expression and, 666–68
Recombination
  centromeres and, 169
  Z-DNA and, 837
Redox enzymes, 510–13
Relaxin, 266
  receptor binding of, 269
Restriction endonucleases
  site-specific mutagenesis and, 343, 345
  Z-DNA and, 808
Restriction enzyme analysis
  E. coli K12 rRNA gene sets and, 96
Retinoblastoma cells
  gene amplification and, 461
Retroviruses
  oncogenesis and, 284
Reversed-phase column chromatography
  polynucleotide purification and, 330–31
Rhamnogalacturonan I
  in primary cell walls of plants, 638–40
  proteinase inhibitor inducing factor activity and, 656
Rhamnogalacturonan II
  in primary cell walls of plants, 640–42
Rhodopseudomonas viridis
  photosynthetic reaction center of, 600
Rhodopsin
  membrane-related helices in, 618
  membrane-spanning segments in, 617
Rhodospirillum rubrum
  component I of
    iron-molybdenum cofactor and, 233
Rhynchosciara
  gene amplification in, 452
Ribonucleotide reductase
  inactivation of, 504
Ribosomal DNA
  amplification during oogenesis, 449–50
  amplification in *Tetrahymena* spp., 450–51
Ribosomal DNA genes
  abundance in *Drosophila* spp. changes in, 454–55
Ribosomal GTPase
  inhibition of
    thiostrepton and, 156
Ribosomal protein gene expression
  translational feedback regulation of, 81–83
  mechanism of, 83–89
Ribosomal protein genes
  organization of, 78
  transcription of, 91–95
Ribosomal protein promoters
  DNA sequence analysis of, 78–80
Ribosomal proteins
  rRNA conformation and, 148–50
  rRNA interactions with, 146–50
  as translational repressors, 81–83
Ribosomal protein synthesis
  growth rate–dependent control of, 101–9
  regulation of, 77–95
Ribosomal RNA
  mammalian mitochondrial DNA and, 584–86
  nucleotide sequences for, 121–24
  r-protein interactions with, 146–50
  r-protein mRNA binding sites and, 84–86
Ribosomal RNA genes
  chromosomal locations of, 96
  organization and transcription of, 96–99
  transcription of, 98
Ribosomal RNA genetics, 151
Ribosomal RNA methylation
  antibiotic resistance and, 151
Ribosomal RNA promoters
  transcription and, 97–98
Ribosomal RNA structure, 119–57
  5S, 135
  16S, 129–35
  23S, 135
  function and, 150–57
  phylogenetic comparison of, 136
  primary, 121–24
  quaternary, 146–50
  secondary, 124–43
  tertiary, 143–46
Ribosomal RNA synthesis
  regulation of, 95–109
  ribosome assembly inhibition and, 105
  ribosome feedback regulation of, 103–7
Ribosomal RNA terminators
  transcription and, 98–99
Ribosomal subunits
  association of, 152–53
Ribosomal synthesis, 75–112
  control of, 75–77
  eukaryotic
    regulation of, 109–12
  regulation of, 95–109
Ribosomes
  cellular concentration of
    growth rate and, 76
  dissociation and subunit stability of
    polyamines and, 774
Ribothymidines
  in *E. coli* 23S rRNA, 123
Rifampicin
  abortive initiation and, 414
RNA
  polyamine interactions with, 772–73
  single-stranded
    rho binding and, 432
    rho NTPase and, 429
  see also Ribosomal RNA, Transfer RNA
RNA-DNA hybrid
  rotation during transcription, 424
RNA dot blotting
  proopiomelanocortin mRNA and, 692
RNA formation
  regulation of, 416–19
RNA phage R17 system
  replicase gene of
    translation initiation site of, 88
RNA polymerase
  action on double-stranded DNA, 408–9
  activation by P22 repressor, 418
  bound to DNA, 392
  core subunits of
    genetic map positions of, 392
  DNA-dependent, 390–91
    RNA molecule production and, 389–90
  DNA template unwinding and, 420–22
  facilitated transfer to promoters, 397–401
  nonribosomal protein gene product synthesis and, 83

nonspecific binding to DNA, 395–97
nucleoside triphosphate binding to, 413
pausing sites of
termination positions and, 431
promoter and, 392–93
reaction-photocross-linking to DNA, 400
RNA synthesis and, 420
rRNA operon transcription and, 100
rRNA operon transcription rates and, 107–8
transcription cycle and, 390
RNA polymerase–closed promoter interaction, 401–6
RNA polymerase holoenzyme
terminators functioning with, 427–28
RNA polymerase–open promoter complex
closed-to-open promoter transition in, 406–11
RNA polymerase–promoter interactions
topography of, 410–11
transcription initiation and, 411–16
RNA polymerase subunits
r-protein or rRNA genes and, 77
RNA-RNA interactions
dyad symmetry in, 423
evidence for, 139–43
RNA structure
terminator
antitermination and, 435–36
RNA synthesis
amino acid starvation and, 100–1
elongation phase of, 419–26
RNA polymerase and, 420
Rous sarcoma virus
transforming gene of
translation product of, 28
tyrosine-specific kinases encoded by, 278
rRNA
see Ribosomal RNA

S

Saccharomyces cerevisiae
S-adenosylmethionine decarboxylase in, 375–76
adenosylmethionine decarboxylase purification from, 758
double-stranded RNA plasmids of
polyamines and, 772
gene amplification in, 454
ornithine decarboxylase activity in
control of, 766
polyamine biosynthetic pathway and, 753–54
r-protein synthesis in, 110
see also Yeast
Saccharomyces spp.
ornithine decarboxylase in, 755–56
Salmonella bacteriophage P22
antirepressor transcription in
promoter mutations for, 406
Salmonella spp.
gene amplification in, 452–53
Salmonella typhimurium
phosphatidylserine conversion in, 377
Scanning transmission electron microscopy
of fibrinogen, 203–4
Sciatin
myotrophic effects of, 265
Scleroderma
autoantibody reactions with centromeres in, 173
Secobarbital
cytochrome P_{450} inactivation and, 514
Semicarbazide
S-adenosylmethionine decarboxylase inactivation and, 374
Serine phosphate
phosphoryl potential of, 27–28
Serine proteases
suicide substrates for, 497–98
Serum
eukaryotic rRNA synthesis stimulation and, 111
Sickle cell anemia
prenatal diagnosis of, 352–53
Sigma factor
RNA polymerase binding to *E. coli* promoters and, 414–15
Sister chromatid exchange
unequal
gene amplification and, 475–77
Skeletal growth factor, 266
Snake venom
fibrinopeptide B release and, 208
Sodium hydroxide
oligonucleotide deblocking and, 329
Sodium perchlorate
Z-DNA stability and, 819
Somatomedin C, 266
Somatostatin
precursor to
cleavage recognition sites in, 696
SOS system
E. coli operons of, 80
Southern blot technique
E. coli K12 rRNA gene sets and, 96
Spergualin, 781
Spermidine
adenosylmethionine decarboxylase levels and, 767
aminopropyl moiety of, 758
biosynthetic pathway for, 750–51
conversion to putrescine, 777–80
terminal amino group oxidation in, 780
Spermidine aminopropyltransferase mutations
S. cerevisiae, 753–54
Spermidine biosynthesis
S-adenosylmethionine decarboxylase and, 377
Spermidine synthase, 759–60
inhibitors of, 763
Spermine
aminopropyl moiety of, 758
biosynthetic pathway for, 750–51
conversion to putrescine, 777–80
terminal amino group oxidation in, 780
Spermine biosynthesis
S-adenosylmethionine decarboxylase and, 377
Spermine synthase, 759–60
inhibitors of, 763
Staphylococcus aureus
clumping of
fibrinogen and, 216–17
Staphylococcus spp.
erythromycin resistance in
adenine dimethylation and, 155
Steroid synthesis
coenzyme A and, 20
Striated muscle
invertebrate
thick filaments of, 54–56
vertebrate
thick filaments of, 51–54
Stylonychia spp.
telomeric DNA sequences of, 183
Z-DNA in, 831–32
Suicide substrates, 493–533
autoinactivation and, 523–24
dioxygenase, 521–22
dopamine β-hydroxylase, 520–51
fluorinated, 527–29

glycosidase, 502–3
inhibition by inhibitor binding, 530–32
β-lactamase, 499–502
monoxygenase, 513–20
pyridoxal-P enzyme, 505–10
pyrimidine enzymes catalyzing, 524–27
redox enzyme, 510–13
serine protease, 497–98
Sulbactam
β-lactamase inactivation and, 500
Sulfate
activation and transfer of, 22–23
Sulfation
post-translational modifications in proopiomelanocortin and, 697
Sulfite oxidase
iron-molybdenum cofactor and, 235–36
Sulfones
β-lactamase inactivation and, 499
Sultamacillin
β-lactamase inactivation and, 500
SV40
Z-DNA and, 793
SV40 DNA
E. coli RNA polymerase pausing sites on, 423
T antigen–dependent replication of carcinogens and, 468–69
Synthetic DNA
cloning of, 333–35
mediated site-specific mutagenesis and, 343–51
role in gene isolation, 336–43
Synthetic genes
gene expression regulation and, 335–36
protein production and, 336

T

Telomeres, 175–90
aberrant interactions of, 177
cytology of, 176–77
DNA sequences of, 180–84
nonhomologous, 184–86
elongation during replication, 186–87
replication of, 177–80
Testosterone
ornithine decarboxylase levels and, 764
Tetrahymena spp.
extrachromosomal rDNA of, 183–84
macronuclear telomere formation in, 189
ribosomal DNA gene amplification in, 450–51
telomeric rDNA sequences of, 183–84
Tetrahymena thermophila
telomeric DNA sequences of, 182
1,1,3,3-Tetramethylguanidium-2-nitrobenzaldoximate
oligonucleotide deblocking and, 329
Thalassemias
prenatal diagnosis of, 352–53
Thermine, 781
Thermospermine, 781
Thienemycin
β-lactamase inactivation and, 501–2
Thiols
presence in myosin heads, 40–41
Thiostrepton
resistance to rRNA methylation and, 151
ribosomal GTPase inhibition and, 156
Thrombin
cellular growth and, 265
fibrin binding to, 215–16
Thrombocytopenia
difluoromethylornithine and, 760–61
Thymidylate synthetase
DNA biosynthesis and, 524–25
Thymosin, 266
Tissue cultures
aerobic glycolysis in, 10
Transamidation
ornithine decarboxylase activity in vitro and, 767
Transcription
antitermination of protein-regulated, 436–38
terminator RNA structure and, 435–36
initiation in RNA polymerase–promoter interactions, 411–16
of mammalian mitochondrial genome, 573–92
promoter and, 392–93
regulation of, 390, 393
RNA molecule production and, 389–90
RNA polymerase and, 391–92
rRNA gene, 96–99
rRNA promoters and, 97–98
termination of
regulation at, 434–38
rho-dependent, 428–34
rho-independent, 427–28
Z-DNA and, 833–37
Transcriptional mapping
of mitochondrial DNA, 576–78
Transcriptional polarity
translational inhibition of cistrons and, 86–89
Transferases
in primary cell walls of plants, 650
Transferrin
cellular growth and, 265
Transfer RNA
amino acyl protein synthesis and, 25
mammalian mitochondrial DNA and, 586–87
polyamines and, 773
ribosome interactions with, 153–55
r-protein or rRNA genes and, 77
Transfer RNA gene expression
rRNA operons and, 90–91
Transfer RNA synthesis
ribosome assembly inhibition and, 105
Transforming growth factor receptors
recognitive moieties of, 275–77
Transforming growth factors, 266
epidermal growth factor and, 268–69
neoplastic disease and, 286–87
sequencing of, 267
Transglutaminase
substrates for, 781
Translation elongation factors
r-protein or rRNA genes and, 77
Translational coupling
translational inhibition of cistrons and, 86–89
Transposition
gene amplification and, 480–83
Trauma
fibrinogen biosynthesis and, 218–19
1-(mesitylene-2-sulfonyl)-3-nitro-1,2,4-Triazolide
oligonucleotide assembly and, 327
Trichloroacetic acid
oligonucleotide assembly and, 327–28
Triethylammonium phosphate
membrane protein crystallization and, 598

Triethylammonium thiophenoxide
oligonucleotide deblocking and, 329
Trifluorethane
Z-DNA stability and, 819
Tritium exchange
Z-DNA and, 813
tRNA
see Transfer RNA
Trypanosoma brucei
telomeric DNA sequences of, 183
Trypanosomes
chromosomal DNA ends of, 177
chromosome end length of telomeric repeats and, 189
Trypanosomiasis
ornithine decarboxylase inhibition and, 505
Trypsin
myosin subfragment-1 cleavage and, 40
Tumor cells
gene amplification in, 460–63
Tumorigenesis
gene amplification and, 448, 460–61
Tumors
heparan sulfate proteoglycans in, 855
Tumor viruses
tyrosine-specific kinases encoded by, 278
Tungsten
molybdenum biosynthesis and, 248–50
Tunicamycin
cells resistant to
gene amplification and, 467
keratan sulfate synthesis and, 853–54
Turnip yellow mosaic virus
polyamines in, 773
Tyrocidin
bacterial production of, 29–30
isolated from *B. brevis*, 16
Tyrosine hydroxylase synthesis
nerve growth factor–induced, 283
Tyrosine phosphate
phosphoryl potential of, 28

U

Ubiquinol–cytochrome c reductase
crystallization of, 598
Ultraviolet circular dichroism
Z-DNA and, 809–10
Ultraviolet light
gene amplification and, 453
Ultraviolet light irradiation
gene amplification and, 468
RNA-RNA cross-links and, 139
Urea cycle
phosphorylation in, 21–22

V

Vaccinia virus
double-stranded DNA genome of
Batemen model of, 179
Vasopressin
gene amplification and, 468
Viomycin
resistance to
rRNA methylation and, 151
Viral oncogene protein
platelet-derived growth factor and, 261
Viruses
polyamines in, 770
see also specific virus
Vitamin B6
Lactobacillus 30a and, 360
Vitellinic acid, 11, 13
Voronoi polyhedra procedure
packing in proteins and, 544–46

W

Wandering spot procedure
oligonucleotide characterization and, 332
Wound healing
fibronectin/collagen links in, 734

X

Xanthine oxidase
iron-molybdenum cofactor and, 235–36
Xenopus laevis
oogenesis in
ribosomal DNA amplification during, 449–50
r-protein mRNA translation in, 110–11
Xenopus laevis 18S rRNA
nucleotide modifications in, 122
Xenopus oocytes
ribosomal RNA synthesis in ornithine decarboxylase and, 772
Xenopus spp.
chromosome end length of telomeric repeats and, 189
tandemly repeated DNA genes in, 180
Xylans
in primary cell walls of plants, 634–35
Xyloglucans
2,4-D-induced growth and, 657
plant primary cell wall, 631–34
Xylosidases
in plant cell walls, 650

Y

Yeast
chromosomal DNA ends of, 177
chromosome end length of telomeric repeats and, 189
cloning centromeres of, 165–67
dicentric chromosomes in, 169–70
dicentric plasmids in, 170
gene amplification in, 454
see also *Saccharomyces cerevisiae*
Yeast α-factor gene
structure of, 684–85
Yeast centromeres
chromatin structure of, 172
Yolk lipoprotein complex
structure of, 605

Z

Zinc bromide
oligonucleotide assembly and, 327–28

Annual Reviews of Biochemistry
Volume 53, 1984

CONTENTS

A LONG LIFE IN TIMES OF GREAT UPHEAVAL, *Fritz Lipmann* 1

MYOSIN, *William F. Harrington and Michael E. Rodgers* 35

REGULATION OF THE SYNTHESIS OF RIBOSOMES AND RIBOSOMAL COMPONENTS, *Masayasu Nomura, Richard Gourse, and Gail Baughman* 75

STRUCTURE OF RIBOSOMAL RNA, *Harry F. Noller* 119

THE MOLECULAR STRUCTURE OF CENTROMERES AND TELOMERES, *E. H. Blackburn and J. W. Szostak* 163

FIBRINOGEN AND FIBRIN, *Russell F. Doolittle* 195

MOLYBDENUM IN NITROGENASE, *Vinod K. Shah, Rodolfo A. Ugalde, Juan Imperial, and Winston J. Brill* 231

POLYPEPTIDE GROWTH FACTORS, *Robert James and Ralph A. Bradshaw* 259

PROTEIN-DNA RECOGNITION, *Carl O. Pabo and Robert T. Sauer* 293

SYNTHESIS AND USE OF SYNTHETIC OLIGONUCLEOTIDES, *Keiichi Itakura, John J. Rossi, and R. Bruce Wallace* 323

PYRUVOYL ENZYMES, *Paul A. Recsei and Esmond E. Snell* 357

PROTEIN–NUCLEIC ACID INTERACTIONS IN TRANSCRIPTION: A MOLECULAR ANALYSIS, *Peter H. von Hippel, David G. Bear, William D. Morgan, and James A. McSwiggen* 389

GENE AMPLIFICATION, *George R. Stark and Geoffrey M. Wahl* 447

SUICIDE SUBSTRATES, MECHANISM-BASED ENZYME INACTIVATORS: RECENT DEVELOPMENTS, *C. T. Walsh* 493

PRINCIPLES THAT DETERMINE THE STRUCTURE OF PROTEINS, *Cyrus Chothia* 537

TRANSCRIPTION OF THE MAMMALIAN MITOCHONDRIAL GENOME, *David A. Clayton* 573

THREE-DIMENSIONAL STRUCTURE OF MEMBRANE AND SURFACE PROTEINS, *David Eisenberg* 595

STRUCTURE AND FUNCTION OF THE PRIMARY CELL WALLS OF PLANTS, *Michael McNeil, Alan G. Darvill, Stephen C. Fry and Peter Albersheim* 625

POLYPROTEIN GENE EXPRESSION: GENERATION OF DIVERSITY OF NEUROENDOCRINE PEPTIDES, *James Douglass, Olivier Civelli, and Edward Herbert* 665

CROSS-LINKING IN COLLAGEN AND ELASTIN, *David R. Eyre, Mercedes A. Paz, and Paul M. Gallop* 717

POLYAMINES, *Celia White Tabor and Herbert Tabor* 749

THE CHEMISTRY AND BIOLOGY OF LEFT-HANDED Z-DNA, *Alexander Rich, Alfred Nordheim, and Andrew H.-J. Wang* 791

CELL-SURFACE GLYCOSAMINOGLYCANS, *Magnus Höök, Lena Kjellén, Staffan Johansson, and Julie Robinson* 847

INDEXES

Author Index, Volume 52[1] 871
Author Index, Volume 53 921
Subject Index, Volume 53 961
Cumulative Index of Contributing Authors, Volumes 49–53 980
Cumulative Index of Chapter Titles, Volumes 49–53 982

[1] As noted in the preface (p. vi) to Volume 52 (1983), typesetting problems resulted in the omission of an author index from that volume. That author index appears as an extra index here in Volume 53.